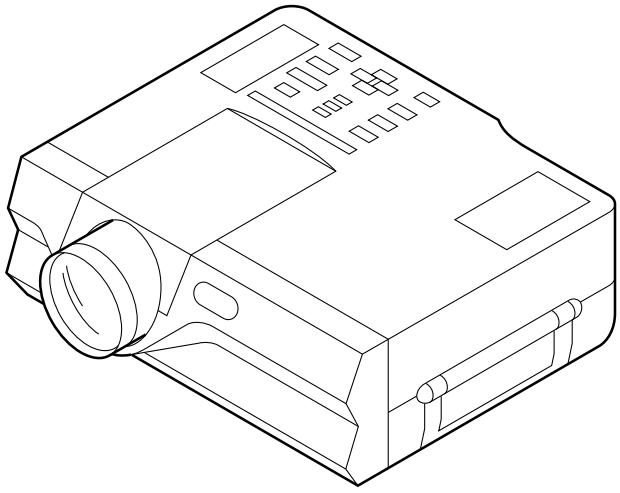
SERVICE MANUAL

MODEL	DEST.
VPL-S600U	US/CND
VPL-S600E	AEP
VPL-S600M	E/AEP
IFB-X600E	AEP

MODEL
RM-PJM600
PSS-600



VPL-S600U/S600E/S600M
IFB-X600E
RM-PJM600
PSS-600

Lcd Data Projector
Interface Board (FOR VPL-X600E/S600E)
Remote Commander
Projector Suspension

LCD DATA PROJECTOR

SONY®

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

ATTENTION!!

AFIN D'EVITER TOUT RISQVE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE.
LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS ÀLA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MAPQUE ⚠ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES CONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

HIGH TEMPERATURE OF THE LAMP

THE TEMPERATURE AROUND THE LAMP BECAME AWFULLY HIGH WHILE THE POWER ON OR IMMEDIATELY AFTER POWER OFF.
HANDLE WITH CARE TO NOT SCALED.

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SECTION 1
OPERATING INSTRUCTIONS

This section is extracted from operation manual.

1-1. VPL-S600U/S600E/S600M OPERATING INSTRUCTIONS

http://getMANUAL.com

3-862-497-11 (1)

SONY

LCD Data Projector

EN Operating Instructions

F Mode d'emploi

ES Manual de instrucciones

VPL-S600U
VPL-S600E
VPL-S600M

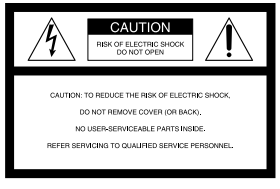
© 1998 by Sony Corporation

English

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

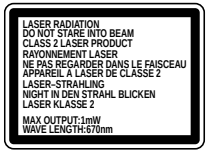
This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

For the customers in the USA

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

For the customers of VPL-S600E/S600M



This label is located on the rear of the Remote Commander.

This label is located on the side of the Remote Commander.

For the customers of VPL-S600U

This label is located on the rear of the Remote Commander.

This label is located on the rear of the Remote Commander.

Laser light shines out of this window.

Caution

use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes

- Do not aim the laser at people or not look into the laser transmitter.
- When the Remote Commander causes mulfunction, consult with qualified Sony personnel. We change the Remote Commander as new one according to the guarantee.

For the customers in Canada

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

For the customers in the United Kingdom

WARNING
THIS APPARATUS MUST BE EARTHED

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Green-and-Yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or coloured green or green-and-yellow.

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Voor de klanten in Nederland

Bij dit produkt zijn batterijen geleverd. Wanneer deze leeg zijn, moet u ze niet weggooien maar inleveren als KCA.

The socket-outlet should be installed near the equipment and be easily accessible.

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Precautions

On safety

- Check that the operating voltage of your unit is identical with the voltage of your local power supply. If voltage adaptation is required, consult with qualified Sony personnel.
- Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it further.
- Unplug the unit from the wall outlet if it is not to be used for several days.
- To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- The wall outlet should be near the unit and easily accessible.
- The unit is not disconnected to the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- Do not look into the lens while the lamp is on.
- Do not aim the laser at people or not look into the laser transmitter.
- Do not place your hand or objects near the ventilation holes — the air coming out is hot.
- When the projector is mounted on the ceiling, the Sony PSS-600 Projector Suspension Support must be used for installation.
- Be careful not to catch your fingers by the adjusters when you lift up the projector. Do not push hard on the top of the projector with the adjusters out.

On illumination

- To obtain the best picture, the front of the screen should not be exposed to direct lighting or sunlight.
- Ceiling-mounted spot lighting is recommended. Use a cover over fluorescent lamps to avoid lowering the contrast ratio.
- Cover any windows that face the screen with opaque draperies.
- It is desirable to install the projector in a room where floor and walls are not of light-reflecting material. If the floor and walls are of reflecting material, it is recommended that the carpet and wall paper be changed to a dark color.

On preventing internal heat build-up

After you turn off the power with the I / ⏻ key on the Remote Commander or on the control panel, do not disconnect the unit from the wall outlet while the cooling fan is still running.

Caution
The projector is equipped with ventilation holes (intake) at the bottom and ventilation holes (exhaust) on the front. Do not block or place anything near these holes, or internal heat build-up may occur, causing picture degradation or damage to the projector.

On cleaning

- To keep the cabinet looking new, periodically clean it with a soft cloth. Stubborn stains may be removed with a cloth lightly dampened with a mild detergent solution. Never use strong solvents, such as thinner, benzene, or abrasive cleansers, since these will damage the cabinet.
- Avoid touching the lens. To remove dust on the lens, use a soft dry cloth. Do not use a damp cloth, detergent solution, or thinner.
- Clean the filter at regular intervals.

On repacking

- Save the original shipping carton and packing material; they will come in handy if you ever have to ship your unit. For maximum protection, repack your unit as it was originally packed at the factory.

Features

High brightness, high picture quality

- **High brightness**
  Adopting the new developed optical system and the 120 W UHP lamp allow high brightness (light output 650 ANSI lumen) and excellent uniformity on the picture.
- **High resolution**
  By adopting three 1.3-inch, about 520,000-pixel SVGA panels, this projector offers resolution of 832 × 624 dots for RGB input and 600 horizontal TV lines for video input.

Simple setup

- **Sony original APA (Auto Pixel Alignment) function**
  You can get the clearest picture automatically by simply pressing the APA key when the signal is input from a computer.
- **Simple setup with external equipment**
  This projector has 39 kinds of preset data for input signals. You can get a suitable picture by connecting an equipment with supplied cable and pressing the APA key.

Easy presentation

- **Remote Commander with mouse control and laser pointer functions**
  You can operate a computer with the Remote Commander since the unit has a build-in mouse receiver. For your presentation, you can use the laser pointer built in the Remote Commander as well.
- **High portability**
  This projector has come to miniaturized to 5.8 kg (12 lb 13 oz) of mass and 12 cm (4 3/4 inches) of height. With such a feature, a carrying handle and a front cover to keep the Remote Commander contribute to a convenient carrying.

Accepts various input signals

- **Scan converter loaded**
  This projector has a build-in scan converter which converts the input signal within 832 × 624 dots.
- **Compatible input signals**
  This projector accepts video signals of the composite, S video, and component as well as the 15 k RGB, VGA[1], SVGA[1] XGA[1], and SXGA[1] signals, which all can be displayed.
- **Compatible with five color systems**
  NTSC, PAL, SECAM, NTSC 4.43[2], or PAL-M color system can be selected automatically or manually.

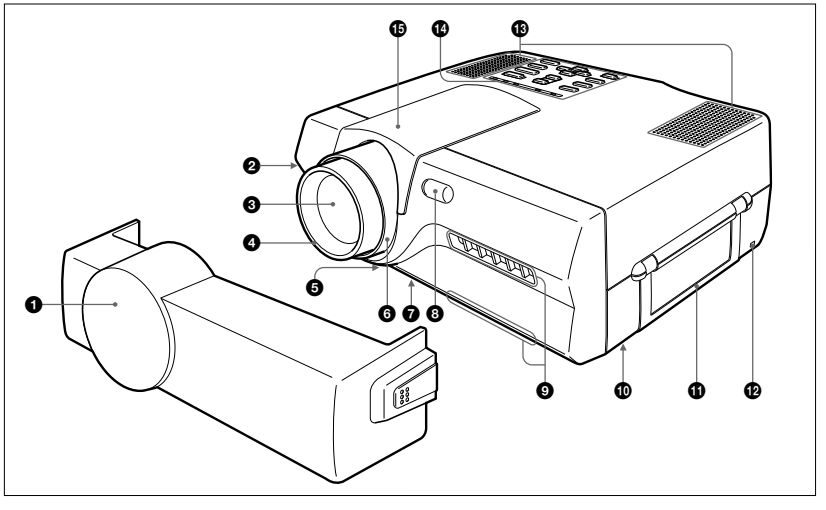
Note on the VPL-S600E model

The optional IFB-X600E Interface Board is required for video composite input.

1) VGA, SVGA, XGA, and SXGA are registered trademarks of the International Business Machines Corporation, U.S.A.
2) NTSC4.43 is the color system used when playing back a video recorded on NTSC on a NTSC4.43 system VCR.

Location and Function of Controls

Front



❶ Front cover
Installs the Remote Commander in the back of the front cover.

❷ Front adjuster button

❸ Lens
Remove the front cover and the lens cap before projection.

❹ Focus ring
Adjusts the picture focus.

❺ Ventilation holes (bottom / intake)

❻ Zoom ring
Adjusts the size of the picture.

❼ Front adjuster
Used to keep the projector level if it is installed on an uneven surface.
For details on how to use the adjusters, see "How to use the adjusters" on page 10 (EN).

❽ Front remote control detector

❾ Ventilation holes (exhaust)

Notes

- Do not place anything near the ventilation holes as it may cause internal heat build-up.
- Do not place your hand or objects near the ventilation holes — the air coming out is hot.

❿ Lamp cover (bottom)

⓫ Carrying handle
Used for carrying the projector.

⓬ Security lock
Connects to an optional security cable (Kensington's).

The security lock corresponds to Kensington's MicroSaver Security System.
If you have any comment, contact
Kensington
2853 Campus Drive, San Mates, CA 94403
U.S.A.
Tel: 800-535-4242: extension 3348
Home page address: http://www.kensington.com/

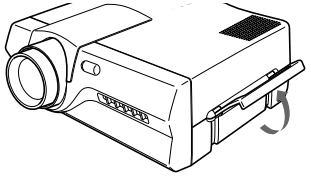
⓭ **Speakers**

⓮ **Control panel**
For details, see "Control panel" on page 11 (EN).

⓯ **Lens hood**

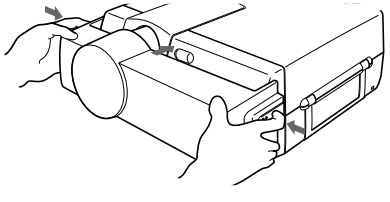
How to use the carrying handle

Pull up the handle from the projector for carrying.



How to attach the front cover

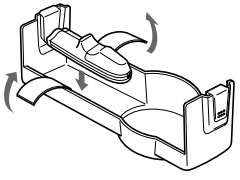
Attach the front cover on the front cabinet by pressing both right and left buttons on the front cover.



Notes
- Do not plug or turn on the projector when the front cover is attached.
- Do not carry the projector with holding the front cover.

How to install the Remote Commander in the front cover

Install the Remote Commander in the back of the front cover and fix it with the velcro tapes. When housing the Remote Commander, make sure that the infrared transmitter faces outside and rear faces upwards.

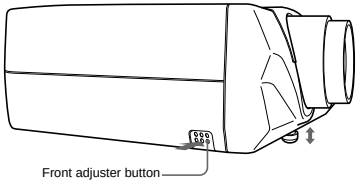


Note
Set the COMMAND ON/OFF switch on the Remote Commander to OFF before installing the Remote Commander.

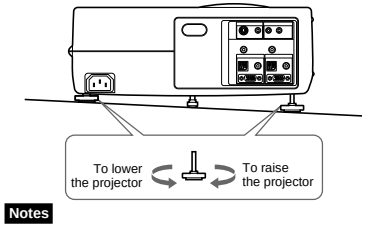
How to use the adjusters

While lifting the projector, adjust the height so that the projector becomes level.
There are one adjuster at the front and two at the rear of the projector.

As for the front adjuster, press the front adjuster button while lifting the projector to adjust the height. Turn the front adjuster for fine adjustment.

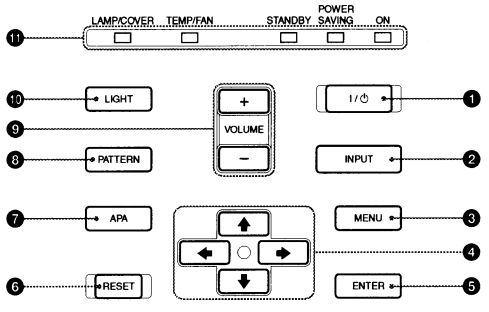


As for the rear adjusters, turn them for adjustment.



Notes
- Be careful not to let the projector down on your fingers.
- Do not push hard on the top of the projector with the adjusters out.

Control panel



❶ **I / ⏻ (on / standby) key**
Turns on and off the projector when the projector is in the standby mode. The ON indicator lights in green when the power is turned on.
When turning off the power, press the I / ⏻ key twice following the message on the screen, or press and hold the key for about one second.
For details on steps for turning off the power, see "To turn off the power" on page 24 (EN).

❷ **INPUT key**
Selects the input signal. Each time you press the key, the input signal switches as follows:

VIDEO IN/AUDIO IN → INPUT A → INPUT B → VIDEO IN/AUDIO IN

Note on the VPL-X600E model
The optional IFB-X600E Interface Board is required for VIDEO IN and AUDIO IN jacks.

❸ **MENU key**
Displays the on-screen menu. Press again to clear the menu.

❹ **Arrow keys (↑/↓/←/→)**
Used to select the menu or to make various adjustments.

❺ **ENTER key**
Enters the settings of items in the menu system.

❻ **RESET key**
Resets the value of an item back to its factory preset value. This key functions when the menu or a setting item is displayed on the screen.

❼ **APA (Auto Pixel Alignment) key**
Adjusts a picture to be projected clearest automatically while a signal from the computer is input.

❽ **PATTERN key**
Displays an H pattern on the screen for focus, zoom adjustments. Press again to clear the pattern.

❾ **VOLUME +/– keys**
Adjust the volume of the built-in speakers and output level of the AUDIO OUT jacks.
+ : Increases the volume.
– : Decreases the volume.

❿ **LIGHT key**
Lights the back lighting (orange) for the keys on the control panel when the power is turned on. Press again to turn off the back lighting.

(Continued)

Location and Function of Controls

⓫ Indicators

ON: Lights in green when the power is turned on.
Flashes in green while the cooling fan runs after turning off the power with the I / ⏻ key. The fan runs for about 90 seconds after turning off the power.
The ON indicator flashes quickly for the first 30 seconds.
During this time, you cannot turn the power back on with the I / ⏻ key.

POWER SAVING: Lights up when the projector is in the power saving mode. When POWER SAVING in the SET SETTING menu is set to ON, the projector goes into the power saving mode if no signal is input for 10 minutes. Although the lamp goes out, the cooling fan keeps running. In the power saving mode, only the I / ⏻ key functions for the first 30 seconds. The power saving mode is canceled when a signal is input or any key is pressed.

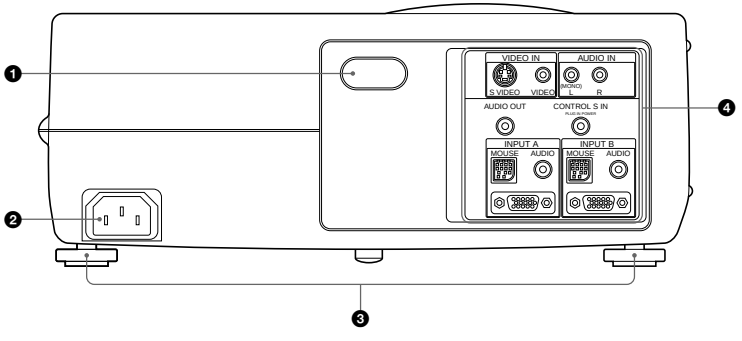
STANDBY: Lights in red when the AC power cord is plugged into the wall outlet.
Once in the standby mode, you can turn on the projector with the I / ⏻ key on the Remote Commander or on the control panel.

TEMP (Temperature)/FAN: Lights up or flashes under the following conditions:
- Lights up when temperature inside the projector becomes unusually high.
- Flashes when the fan is broken.

LAMP/COVER: Lights up or flashes under the following conditions:
- Lights up when the lamp has reached the end of its life.
- Flashes when the lamp cover or air filter cover is not secured firmly.

For details on the LAMP/COVER and the TEMP/FAN indicators, see page 39 (EN).

Rear



The illustration above is the VPL-S600U/M model.

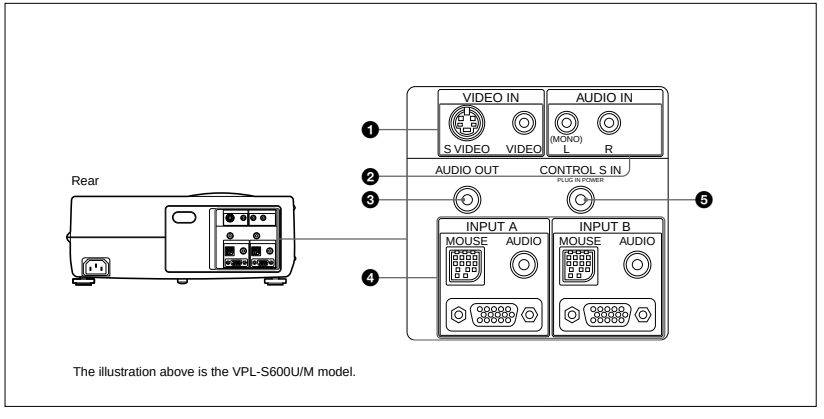
❶ Rear remote control detector

❷ AC IN socket
Connects the supplied AC power cord.

❸ Rear adjusters
Used to keep the projector level if it is installed on an uneven surface.
For details on using the adjusters, see "How to use the adjusters" on page 10 (EN) .

❹ Connector panel
For details, see page 14 (EN).

Connector panel



The illustration above is the VPL-S600U/M model.

❶ VIDEO IN jacks
Connect to external video equipment such as a VCR.
S VIDEO (mini DIN 4-pin): Connects to the S video output (Y/C video output) of a video equipment.
VIDEO (phono type): Connects to the composite video output of video equipment.

Note
If you connect video equipment to both the S VIDEO and VIDEO jacks, the signal from the S VIDEO jack is selected. When projecting the picture via the VIDEO jack, be sure not to connect a cable to the S VIDEO jack.

❷ AUDIO IN L (MONO)/R jacks (phono type)
Connect to the audio output of equipment. For stereo equipment, use both the L and R jacks; for monaural equipment, use the L (MONO) jack only.

❸ AUDIO OUT jack (stereo minijack)
Connects to external active speakers.
The volume of the speakers can be controled by the VOLUME keys on the Remote Commander or the control panel.

❹ INPUT A/INPUT B connectors
Connect to external equipment such as a computer. You can control the mouse signal with the Remote Commander.
MOUSE (13-pin): Connects to the mouse port on a computer to control the mouse function using the supplied mouse cable.
AUDIO (stereo minijack): Connects to the audio output on a computer to input the audio signal.
RGB input (HD D-sub 15-pin, female): Connects to the monitor output on a computer using the supplied cable. When inputting a component, 15k RGB, or HDTV signal, use the optional cable.

❺ CONTROL S IN/PLUG IN POWER jack (DC 5 V output, stereo minijack)
Connects to the CONTROL S OUT jack on the supplied Remote Commander with the stereo connecting cable (not supplied) when using it as a wired Remote Commander. You do not need to install the batteries since the power is supplied via this jack. Batteries are required when you use the laser pointer function.

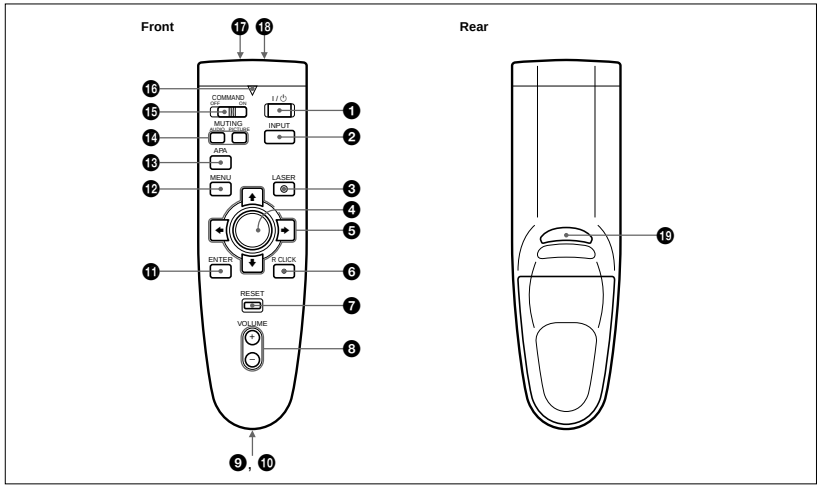
Note on the VPL-S600E model
The optional IFB-X600E Interface Board is required for the VIDEO IN ❶ and AUDIO IN ❷ jacks.

Remote Commander

The Remote Commander can be used as a wireless or wired Remote Commander.
The keys which have the same names as on the control panel function identically.
You can control a connected computer using the Remote Commander.

For details, see "Connecting with a Computer" on page 18 (EN).

Notes on laser beam
• Do not look into the laser transmitter.
• Do not aim the laser at people.



❶ I / ⏻ key

❷ INPUT key

❸ LASER key
Emits laser beam from the laser transmitter when you press this key.

❹ Joy stick
Functions as a mouse of a computer connected to the unit.

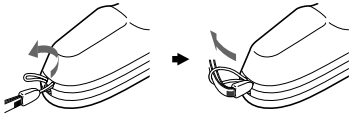
❺ Arrow keys (↑/↓/←/→)

❻ R CLICK key
Functions as a right button on a mouse. When connected to a Macintosh[1)] computer, the R CLICK key functions as a mouse button.

❼ RESET key

❽ VOLUME +/– keys

❾ Strap holder
Attaches the supplied strap.



(Continued)

1) Macintosh is a registered trademark of Apple Computer, Inc.

Location and Function of Controls

⑩ CONTROL S OUT jack (stereo minijack)
Connects to the CONTROL S IN jack on the projector with the connecting cable (not supplied) when using the Remote Commander as a wired one. In this case, you do not need to install the batteries since the power is supplied via the CONTROL S IN jack on the projector.

⑪ ENTER key

⑫ MENU key

⑬ APA (Auto Pixel Alignment) key

⑭ MUTING keys
Cut off the picture and sound.
PICTURE: Cuts off the picture. Press again to restore the picture.
AUDIO: Cuts off the sound from speakers and AUDIO OUT jack. Press again or press the VOLUME + key to restore the sound.

⑮ COMMAND ON/OFF switch
When this switch is set to OFF, no key on the Remote Commander function. This saves the battery power.

⑯ Transmission indicator
Lights up when you press a key on the Remote Commander.
This indicator does not light up when you use the laser pointer.

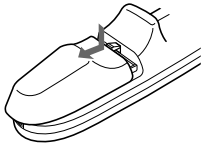
⑰ Infrared transmitter

⑱ Laser transmitter

⑲ L CLICK key
Functions as a left button on a mouse. When connected to a Macintosh computer, the L CLICK key functions as a mouse button.

Battery installation

1 Push and slide to open the lid.



2 Install the two size AA (R6) batteries (supplied) with the correct polarity.

3 Replace the lid.

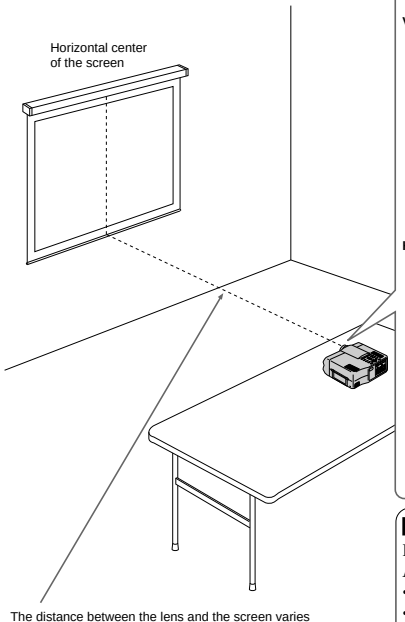
Notes on batteries
- Make sure that the battery orientation is correct when inserting batteries.
- Do not mix an old battery with a new one, or different types of batteries.
- If you will not use the Remote Commander for a long time, remove the batteries to avoid damage from battery leakage. If batteries have leaked, remove them, wipe the battery compartment dry and replace the batteries with new ones.

Notes on wireless Remote Commander operation
- Make sure that there is nothing to obstruct the infrared beam between the Remote Commander and the remote control detector on the projector.
- The operation range is limited. The shorter the distance between the Remote Commander and the projector is, the wider the angle within which the commander can control the projector.
- The remote control detectors on the projector do not function when the connecting cable (not supplied) is connected to the projector. When using the Remote Commander as a wireless Remote Commander, remove the connecting cable from both the Remote Commander and the projector.

Note on wired Remote Commander operation
The laser pointer function does not work when you use the Remote Commander as a wired one without batteries.

Installing the Projector

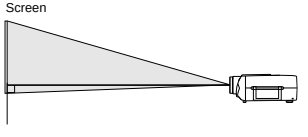
This section describes the installation arrangements for installing the projector on a table. For ceiling installation, consult with qualified Sony personnel (see page 34 (EN)).



The distance between the lens and the screen varies depending on the size of the screen. Use the following table as a guide.

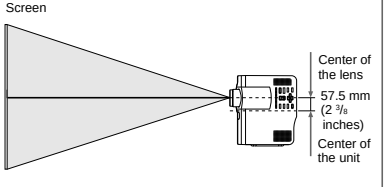
Adjust the vertical and horizontal positioning of the projector.

Vertical positioning (side view)



Adjust the height of the projector so that the center of the lens is just above the bottom edge of the screen.

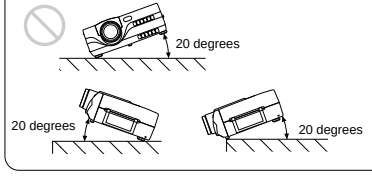
Horizontal positioning (top view)



Adjust the horizontal positioning of the projector so that the lens is aligned with the horizontal center of the screen.

Note

Install the projector to be level.
Avoid followings which may cause malfunction.
- The projector topples over on its side.
- The projector titles more than 20 degrees.



The following table shows the projection distance when the SVGA signal (horizontal 800 × vertical 600 dots) is input.
- When XGA/SXGA signal is input, the projection distance becomes shorter by 1.6%.
- When the Macintosh 16-inch mode or HDTV signal is input, the projection distance becomes shorter by 4%.

Unit: m (feet)

Screen size (inches)		40	60	80	100	120	150	180	200	250	300
Distance	Minimum	1.6 (5.1)	2.4 (7.8)	3.2 (10.4)	4.0 (13.1)	4.8 (15.8)	6.1 (19.8)	7.3 (23.9)	8.1 (26.5)	10.1 (33.2)	12.2 (40.0)
	Maximum	2.0 (6.4)	3.0 (9.8)	4.0 (13.2)	5.0 (16.5)	6.1 (19.9)	7.6 (24.9)	9.1 (30.0)	10.2 (33.3)	12.7 (41.7)	15.3 (50.1)

For detailed information on installation measurements, see page 33 (EN).

Connecting

Note on the VPL-S600E model
The optional IFB-X600E Interface Board is required for the VIDEO IN and AUDIO IN jacks.

Connecting with a Computer

This section describes how to connect the projector with a computer.
For details on how to connect VCR, see page 20 (EN), and to connect other equipment, see page 21 (EN).

When the projector is connected to a computer, you can control the mouse of a computer by the Remote Commander.
The R/L CLICK keys and joy stick function as follows.

Note

Make sure that there is nothing to obstruct the infrared beam between the Remote Commander and the remoter control detector on the projector.

Key and joy stick	Function	
	IBM PC/AT[a] compatible, Serial	Macintosh
R CLICK (front)	Right button	Mouse button
L CLICK (rear)	Left button	Mouse button
Joy stick	Corresponds with the movements of the mouse	

a) IBM PC/AT is a registered trademark of International Business Machines Corporation, U.S.A.

Also refer to the instruction manual of equipment to be connected.

Notes

- This unit accepts the VGA, SVGA, XGA[1], and SXGA[1] signals. However, we recommend you to set the output mode of your computer to the SVGA mode for the external monitor. (For Macintosh computer, set the output mode to 16-inch mode.)
- If you set your computer, such as a notebook type IBM PC/AT compatible, to output the signal to both the display of your computer and the external monitor, the picture of the external monitor may not appear properly. In such cases, set the output mode of your computer to output the signal to only the external monitor.
  For details, refer to the operating instructions supplied with your computer.

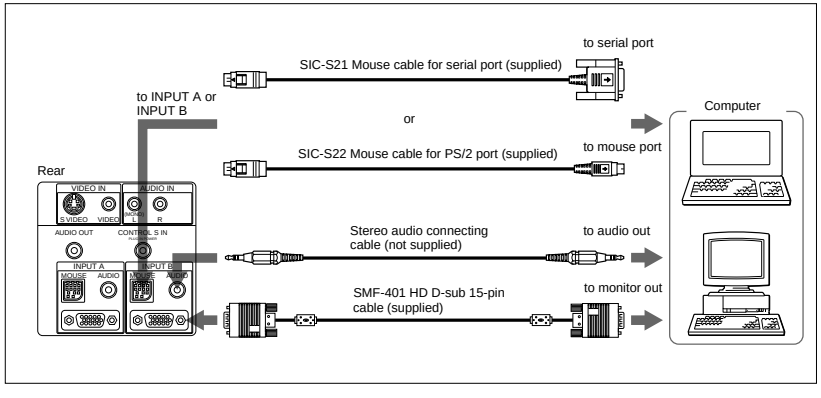
When making connections, be sure to:

- turn off all equipment before making any connections.
- use the proper cables for each connection.
- insert the plugs of the cables properly; plugs that are not fully inserted often generate noise. When pulling out a cable, be sure to pull it out from the plug, not the cable itself.

Note

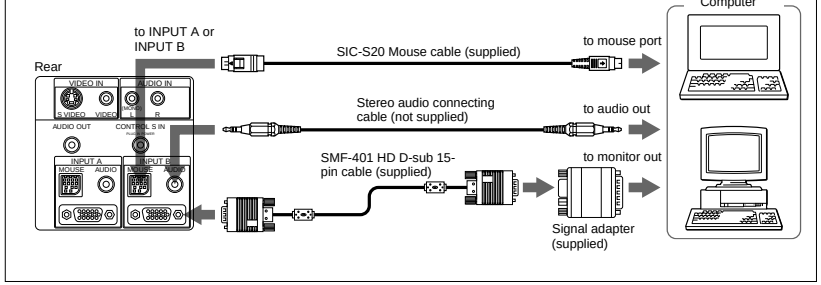
Connect all the connecting cables to the INPUT A connector when you input a signal from the INPUT A connector. Connect all the cables to the INPUT B connector when you input a signal from the INPUT B connector as well.

When connecting with an IBM PC/AT compatible computer



When connecting with a Macintosh computer

For details on the DIP switch setting of the adapter, see page 43 (EN).



1) Compressed XGA or SXGA signal is reproduced.

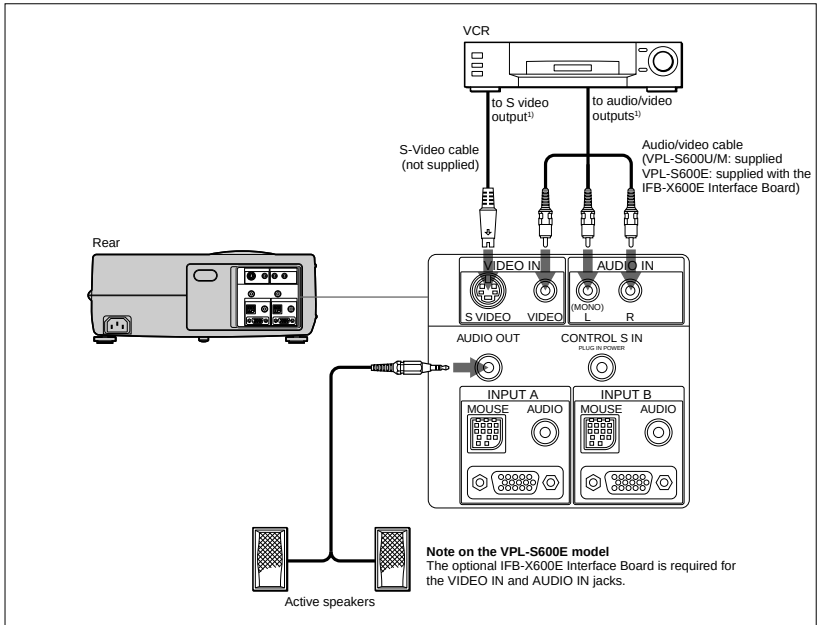
http://getMANUAL.com

Connecting

Connecting with a VCR

This section describes how to connect the projector with a VCR and external active speakers.
For details on how to connect a computer, see page 18 (EN), and to connect other equipment, see page 21 (EN).
Also refer to the instruction manuals of equipment to be connected.

When making connections, be sure to:
- turn off all equipment before making any connections.
- use the proper cables for each connection.
- insert the plugs of the cables properly; plugs that are not fully inserted often generate noise. When pulling out a cable, be sure to pull it out from the plug, not the cable itself.

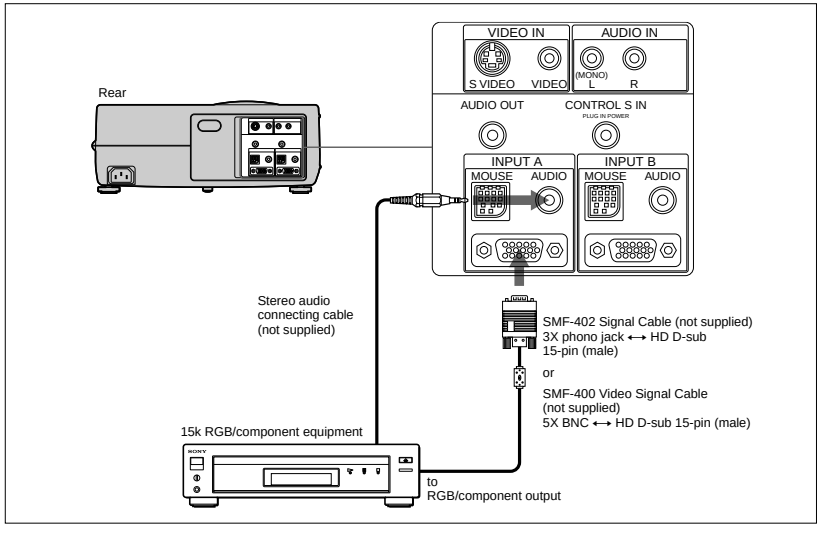


1) When both the S VIDEO and VIDEO jacks are connected to the external equipment, the input signal from the S VIDEO jack is selected.

Connecting 15k RGB/Component Equipment

This section describes how to connect the projector with 15k RGB and component equipment.
For details on how to connect a computer, see page 18 (EN), and to connect a VCR and external active speakers, see page 20 (EN). Also refer to the instruction manual of equipment to be connected.

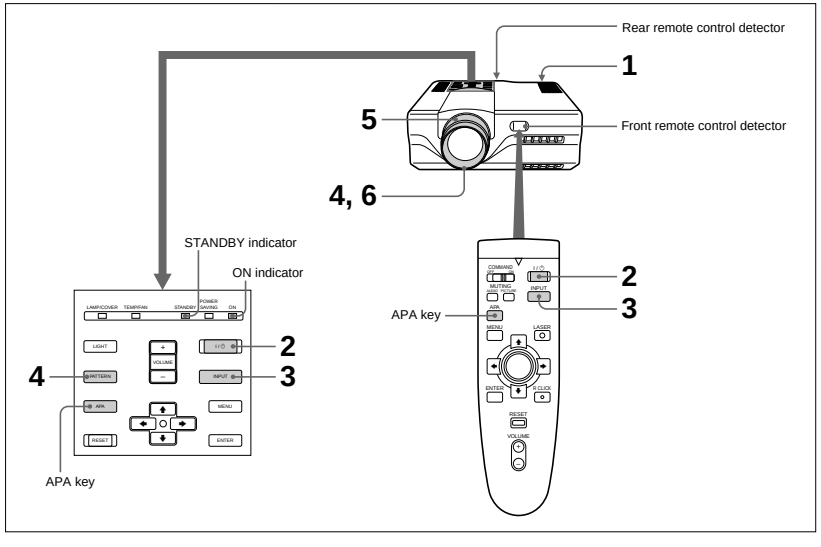
When making connections, be sure to:
- turn off all equipment before making any connections.
- use the proper cables for each connection.
- insert the plugs of the cables properly; plugs that are not fully inserted often generate noise. When pulling out a cable, be sure to pull it out from the plug, not the cable itself.



Notes
- Select the RGB or component signal with INPUT-A or INPUT-B in the SET SETTING menu.
- Use the composite sync signal when you input the external sync signal from 15k RGB/component equipment.
- You can also connect HDTV (1125/60 interlaced HDTV Studio Standard) equipment. The connection is same as above.

To connect HDTV equipment
– Input the RGB signal (without the sync signal) such as a MUSE Decoder.
– Input the external sync signal (HD/VD).
– The HDTV singal is displayed at 480 lines vertically since the HDTV picture is 16:9 ratio. Due to this matter, you cannot get the real HDTV vertical resolution.

Projecting



1 After all equipment is connected completely, plug the AC power cord into the wall outlet.

The STANDBY indicator lights in red and the projector goes into the standby mode.

2 Press the I / ⏻ key on the Remote Commander or on the control panel.

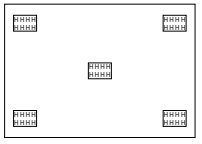
The ON indicator lights in green.

3 Turn on equipment connected to the projector. Press the INPUT key on the Remote Commander or on the control panel to select the input source.

INPUT A: Selects audio and video signals input from the INPUT A connector.
INPUT B: Selects audio and video signals input from the INPUT B connector.
VIDEO: Selects audio and video signals input from the VIDEO IN/ AUDIO IN jacks.
(If you connect to both the S VIDEO and VIDEO jacks, the signal from the S VIDEO jack is selected.)

Note on the VPL-S600E model
The optional IFB-X600E Interface Board is required for selecting VIDEO.

4 Press the PATTERN key on the control panel to display the H pattern, and turn the focus ring to adjust the focus.



Press the PATTERN key again to clear the pattern.

5 Turn the zoom ring to adjust the size of the picture.

6 Turn the focus ring again to adjust the focus.

Note
Do not look into the lens when the projector lamp is on.

To	Press
Adjust the volume	the VOLUME +/– keys on the control panel or on the Remoter Commander.
Cut off the sound	the AUDIO MUTING key on the Remote Commander. To restore the sound, press the AUDIO MUTING key again or press the VOLUME + key.
Cut off the picture	the PICTURE MUTING key on the Remote Commander. To restore the picture, press the PICTURE MUTING key again.

To get the clearest picture

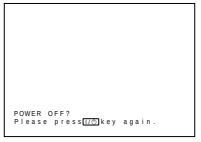
You can get the suitable picture when a signal from the computer is input. Press the APA key on the Remote Commander or on the control panel. The picture is automatically adjusted to be projected clearest.

Notes
- Adjust the signal when the still picture is displayed on the screen.
- If you switch the input signal or re-connect a computer, press the APA key again to get the suitable picture.
- "ADJUSTING" appears on the screen. Press the APA key again during the adjustment to restore the original screen.
- "Complete!" appears on the screen when the picture is adjusted properly. The picture may not be adjusted properly depending on the kinds of input signals.
- Adjust DOT PHASE in the INPUT SETTING menu when you adjust the picture manually.
  For details on DOT PHASE, see page 28 (EN).

To turn off the power

1 Press the I / ⏻ key on the Remote Commander or on the control panel.

The following message appears to confirm if you want to turn off the power.



Note

The message will disappear if you press any key except the I / ⏻ key, or if you do not press any key for five seconds.

2 Press the I / ⏻ key on the Remote Commander or on the control panel again.

The ON indicator flashes in green and the fan continues to run for about 90 seconds to reduce the internal heat. Also, the ON indicator flashes quickly for the first 30 seconds. During this time, you will not be able to turn the power back on with the I / ⏻ key.

3 Unplug the AC power cord from the wall outlet after the fan stops running and the STANDBY indicator lights in red.

When you cannot confirm the on-screen message

When you cannot confirm the on-screen message in a certain condition, you can turn off the power by holding the I / ⏻ key on the Remote Commander or on the control panel for about one second.

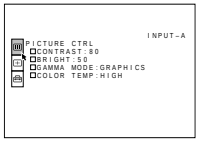
Note

Do not unplug the AC power cord while the fan is still running; otherwise, the fan will stop although the internal heat is still high, leading to breakdown of the projector.

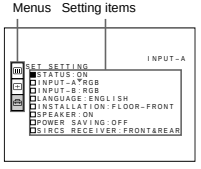
Using the MENU

The projector is equipped with an on-screen menu for making various adjustments and settings.
To select the language used in the menu, see page 32 (EN).

1 Press the MENU key.
The menu display appears.
The menu presently selected is highlighted in blue.



2 Use the ↑ or ↓ key to select a menu, then press the → or ENTER key.
The selected menu appears.



3 Make setting or adjustment on an item.
For details on setting individual items, see the relevant menu pages.

To clear the menu display

Press the MENU key.
The menu display disappears automatically if no key is pressed for one minute.

To reset items that have been adjusted

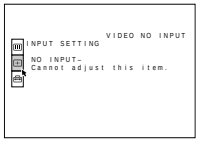
Press the RESET key.
"Complete!" appears on the screen and the settings appearing on the screen will be reset to their factory preset values.
Items which can be reset are:
- "CONTRAST", "BRIGHT", "COLOR", "HUE", and "SHARP" in the PICTURE CTRL menu
- "DOT PHASE", "SIZE", and "SHIFT" in the INPUT SETTING menu.

About the memory of the settings

The settings are automatically stored in the projector memory.

When no signal is input

When there is no input signal, "NO INPUT-Cannot adjust this item." appears on the screen, and each item cannot be adjusted.

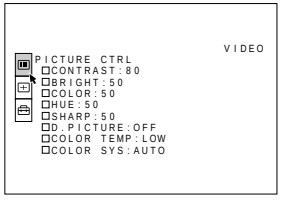


The PICTURE CTRL Menu

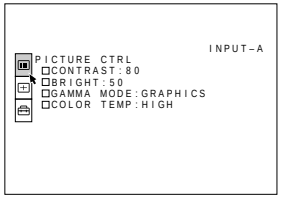
The PICTURE CTRL (control) menu is used for adjusting the picture.
Unadjustable items depending on the input signal are not displayed in the menu.

Note on the VPL-S600E model
The optional IFB-X600E Interface Board is required for inputting the video signal. If you do not install the video board into the unit, the video signal cannot be selected.

When the video signal is input



When the RGB signal is input



Operation

1. Select an item
Use the ↑ or ↓ key to select the item, then press the → or ENTER key.

2. Adjust an item
- When changing the adjustment level:
  To increase the number, press the ↑ or → key.
  To decrease the number, press the ↓ or ← key.
  Press the ENTER key to restore the original screen.
- When changing the setting:
  Press the ↑ or ↓ key to change the setting.
  Press the ENTER or ← key to restore the original screen.

CONTRAST

Adjusts the picture contrast.

The higher the setting, the greater the contrast.
The lower the setting, the lower the contrast.

BRIGHT

Adjusts the picture brightness.

The higher the setting, the brighter the picture.
The lower the setting, the darker the picture.

COLOR

Adjusts color intensity.

The higher the setting, the greater the intensity.
The lower the setting, the lower the intensity.

HUE

Adjusts skin tones.

A higher the setting, the picture becomes greenish.
A lower the setting, the picture becomes purplish.

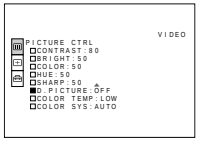
SHARP

Adjusts the picture sharpness.

The higher the setting, the sharper the picture.
The lower the setting, the softer the picture.

D. (Dynamic) PICTURE

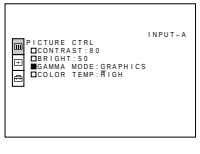
Emphasizes the black color.



ON: Emphasizes the black color to produce a bolder "dynamic" picture.
OFF: Reproduces the dark portions of the picture accurately, in accordance with the source signal.

GAMMA MODE

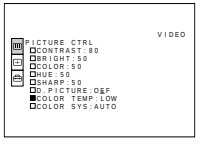
Selects a gamma correction curve.



GRAPHICS: Improves the reproduction of half tones. Photos can be reproduced in natural tones.
TEXT: Contrasts black and white. Suitable for images that contains lots of text.

COLOR TEMP

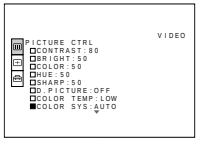
Adjusts the color temperature.



HIGH: Makes the white color bluish.
LOW: Makes the white color reddish.

COLOR SYS (System)

Selects the color system of the input signal.



Normally, set to AUTO.
If the picture is distorted or colorless, select the color system according to the input signal.

Input signals and adjustable/setting items

Item	Input signal				
	Video or S video (Y/C)	Component	HDTV	RGB	B&W
CONTRAST	●	●	●	●	●
BRIGHT	●	●	●	●	●
COLOR	●	●	–	–	–
HUE	● (NTSC3.58/4.43 only)	–	–	–	–
SHARP	●	●	–	–	●
D. PICTURE	●	●	–	–	●
GAMMA MODE	–	–	–	●	–
COLOR TEMP	●	●	●	●	●
COLOR SYS	●	–	–	–	●

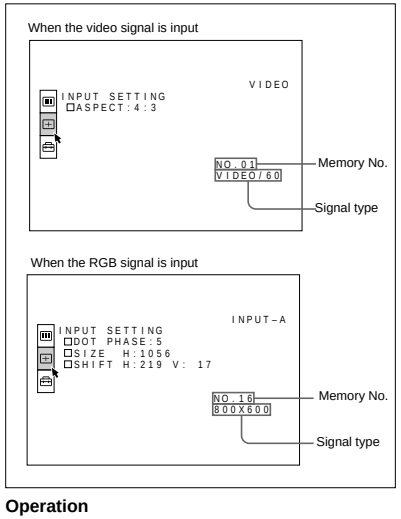
● : Adjustable/can be set
– : Not adjustable/can not be set

The INPUT SETTING Menu

The INPUT SETTING menu is used to adjust the input signal.
Unadjustable items depending on the input signal are not displayed in the menu.

Note on the VPL-S600E model

The optional IFB-X600E Interface Board is required for inputting the video signal. If you do not install the video board into the unit, the video signal cannot be selected.



Operation

1. Select an item

Use the ↑ or ↓ key to select the item, then press the → or ENTER key.

2. Adjust an item

- When changing the adjustment level:
  To increase the number, press the ↑ or → key.
  To decrease the number, press the ↓ or ← key.
  Press the ENTER key to restore the original screen.
- When changing the setting:
  Press the ↑ or ↓ key to change the setting.
  Press the ENTER or ← key to restore the original screen.

Note

When the HDTV signal is input, the items in the INPUT SETTING menu cannot be adjusted.

DOT PHASE

Adjusts the dot phase of the LCD panel and the signal input from the INPUT A/B connectors. Adjust the picture further for finer picture after the picture is adjusted with pressing the APA key.
Adjust the picture to where it looks clearest.

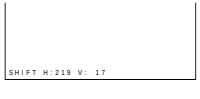
SIZE

Adjusts the horizontal size of picture input from the INPUT A/B connectors.

The higher the setting, the larger the horizontal size of the picture.
The lower the setting, the smaller the horizontal size of the picture. Adjust the setting according to the dots of the input signal. For details on the suitable value for the preset signals, see page 30 (EN).

SHIFT

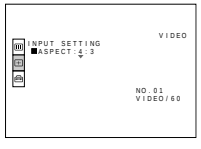
Adjusts the position of the picture input from the INPUT A/B connectors.



H adjusts the horizontal position of the picture.
V adjusts the vertical position of the picture.
As the setting for H increases, the picture moves to the right, and as the setting decreases, the picture moves to the left.
As the setting for V increases, the picture moves up, and as the setting decreases, the picture moves down.
Use the ← or the → key to adjust the horizontal position and the ↑ and ↓ key for the vertical position.

ASPECT

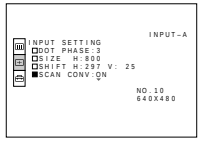
Sets the aspect ratio of the picture.
When inputting 16:9 (squeezed) signal from equipment such as a DVD player, set to 16:9.



4:3: When the picture with ratio 4:3 is input.
16:9: When the picture with ratio 16:9 (squeezed) is input.

SCAN CONV (Scan converter)

Converts the signal to display the picture according to the screen size.



ON: Displays the picture according to the screen size. The picture will lose some clarity.
OFF: Displays the picture while matching one pixel of input picture element to that of the LCD. The picture will be clear but the picture size will be smaller.

Note

When the SVGA, XGA or SXGA signal is input, this item will not be displayed.

Input signals and adjustable/setting items

Item	Input signal				
	Video or S video (Y/C)	15k RGB Component	HDTV	RGB	B&W
DOT PHASE	–	–	–	●	–
SIZE	–	–	–	●	–
SHIFT	–	–	–	●	–
ASPECT	●	●	–	–	●
SCAN CONV	–	–	–	●	–

● : Adjustable/can be set
– : Not adjustable/can not be set

About the preset memory No.

This projector has 39 kinds of preset data for input signals for each INPUT A/B (the preset memory). The memory number of the current input signal and the signal type are displayed when the preset signal is input. This projector automatically detects the signal type. When the signal is registered to the preset memory, a suitable picture is displayed on the screen according to the signal type. You can adjust the picture through the INPUT SETTING menu.
This projector also has 20 kinds of user memories for each INPUT A/B. When an unpreset signal is input for the first time, memory number is displayed as 00. If the input signal is adjusted in the INPUT SETTING menu, the setting via INPUT A is stored under the memory number 51 to 70, and the setting via INPUT B is stored under 71 to 90. When more than 20 user memories are registered for each INPUT A/B, the newest memory is automatically stored over the oldest one.

The INPUT SETTING Menu

Preset signals

Memory No.	Preset signal		fH (kHz)	fV (Hz)	Sync	SIZE
1	Video 60 Hz		15.734	59.940	H-neg V-neg	
2	Video 50 Hz		15.625	50.000	H-neg V-neg	
3	15k RGB/Component 60 Hz		15.734	59.940	H-neg V-neg	
4	15k RGB/Component 50 Hz		15.625	50.000	H-neg V-neg	
5	HDTV		33.750	60.000	H-neg V-neg	
6	640 × 350	VGA mode 1	31.469	70.086	H-pos V-neg	800
7		VGA VESA[a] 85 Hz	37.861	85.080	H-pos V-neg	832
8	640 × 400	VGA mode 2	31.469	70.086	H-neg V-pos	800
9		VGA VESA 85 Hz	37.861	85.080	H-neg V-pos	832
10	640 × 480	VGA mode 3	31.469	59.940	H-neg V-neg	800
11		Macintosh 13"	35.000	66.667	H-neg V-neg	864
12		VGA VESA 72 Hz	37.861	72.809	H-neg V-neg	832
13		VGA VESA 75 Hz	37.500	75.000	H-neg V-neg	840
14		VGA VESA 85 Hz	43.269	85.008	H-neg V-neg	832
15	800 × 600	SVGA VESA 56 Hz	35.156	56.250	H-pos V-pos	1024
16		SVGA VESA 60 Hz	37.879	60.317	H-pos V-pos	1056
17		SVGA VESA 72 Hz	48.077	72.188	H-pos V-pos	1040
18		SVGA VESA 75 Hz	46.875	75.000	H-pos V-pos	1056
19		SVGA VESA 85 Hz	53.674	85.061	H-pos V-pos	1048
20	832 × 624	Macintosh 16"	49.724	74.550	H-neg V-neg	1152
21	1024 × 768	XGA VESA 43 Hz	35.522	43.479	H-pos V-pos	1012
22		XGA VESA 60 Hz	48.363	60.004	H-neg V-neg	1076
23		XGA VESA 70 Hz	56.476	70.069	H-neg V-neg	1064
24		XGA VESA 75 Hz	60.023	75.029	H-pos V-pos	1052
25		Macintosh 19"	60.241	74.029	H-neg V-neg	1064
26		XGA VESA 85 Hz	68.677	84.997	H-pos V-pos	1102
27	1152 × 864	SXGA VESA 70 Hz	63.995	70.016	H-pos V-pos	1044
28		SXGA VESA 75 Hz	67.500	75.000	H-pos V-pos	1136
29		SXGA VESA 85 Hz	77.487	85.057	H-pos V-pos	1112
30	1152 × 870	Macintosh 21"	68.681	75.060	H-neg V-neg	1026
31	1152 × 900	Sunmicro LO	61.795	65.960	H-neg V-neg	1032
32		Sunmicro HI	71.713	76.047	H-neg V-neg	1010
33	1280 × 960	SXGA VESA 60 Hz	60.000	60.000	H-pos V-pos	1154
34		SXGA VESA 75 Hz	75.000	75.000	H-pos V-pos	1106
35	1280 × 1024	SXGA VESA 43 Hz	46.433	43.436	H-pos V-pos	1020
36		SGI-5	53.316	50.062	Sync on G	1010
37		SXGA VESA 60 Hz	63.974	60.013	H-pos V-pos	1020
38		SXGA VESA 75 Hz	79.976	75.025	H-pos V-pos	1014
39	640 × 400	PC-9801[b] Normal	24.823	56.416	H-neg V-neg	848

a) VESA is a registered trademark of Video Electronics Standard Association.
b) PC-98 is a registered trademark of NEC Corporation.

Since the data is recalled from the preset memory about the following signals, you can use these preset data by adjusting SIZE. Make fine adjustment by adjusting SHIFT.

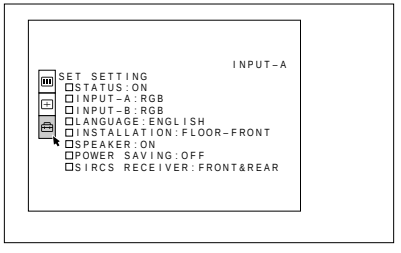
Signal	Memory No.	SIZE
Super Mac-2	22	1052
SGI-1	22	1058
WS Sunmicro	38	938
Sony News	38	964
PC-9821 1280 × 1024	38	902

Note

When the aspect ratio of input signal is other than 4:3, a part of the screen is displayed in black.

The SET SETTING Menu

The SET SETTING menu is used for changing the settings of the projector.



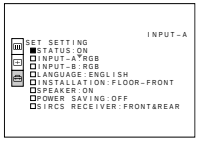
Operation

1. Select an item
Use the ↑ or ↓ key to select the item, then press the → or ENTER key.

2. Change the setting
Press the ↑ or ↓ key to change the setting.
To restore the original screen, press the ENTER or ← key.

STATUS (on-screen display)

Sets up the on-screen display.

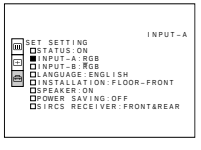


ON: Shows all of the on-screen displays.
OFF: Turns off the on-screen displays except for the menus, a message when turning off the power, and warning messages.

For details on the warning messages, see page 39 (EN).

INPUT-A

Selects the RGB or component signal input from the INPUT A connector.

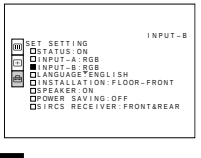


Note

If the setting is not correct, “Please check INPUT-A in SET SETTING.” appears on the screen and the color of the picture becomes strange or the picture is not displayed.

INPUT-B

Selects the RGB or component signal input from the INPUT B connector.



Note

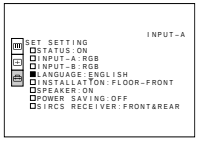
If the setting is not correct, “Please check INPUT-B in SET SETTING.” appears on the screen and the color of the picture becomes strange or the picture is not displayed.

(Continued)

The SET SETTING Menu

LANGUAGE

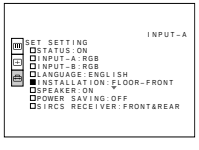
Selects the language used in the menu and on-screen displays.



Available languages are: English, French, German, Italian, Spanish, Japanese and Chinese.

INSTALLATION

Sets to reverse the picture horizontally or vertically.



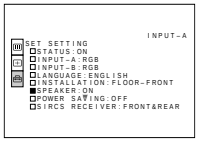
FLOOR-FRONT: The picture is not reversed.
CEILING-FRONT: The picture is reversed horizontally and vertically.
FLOOR-REAR: The picture is reversed horizontally.
CEILING-REAR: The picture is reversed vertically.

Note

In case of using a mirror, be careful of installation since the picture may be reversed.

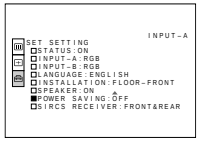
SPEAKER

Set to OFF to cut off the sound of the internal speakers. When set to OFF, “SPEAKER OFF” appears on the screen when you turn on the power.



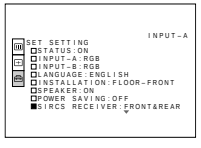
POWER SAVING

When set to ON, the projector goes into the power saving mode if no signal is input for 10 minutes.



SIRCS RECEIVER

Selects the remote control detectors on the front and rear of the projector.

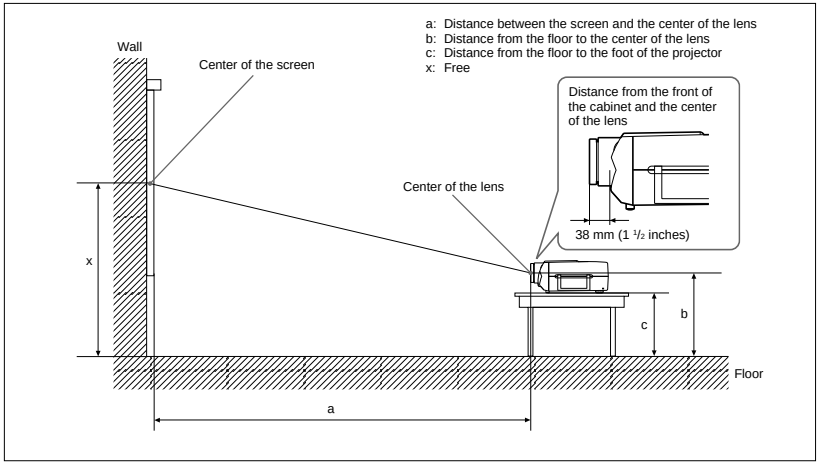


FRONT & REAR: Activates both the front and rear detectors.
FRONT: Activates the front detector only.
REAR: Activates the rear detector only.

Installation Examples

The on-screen picture size changes according to the input signal. Note that the projection distance also changes depending on the picture size.

Floor Installation


a: Distance between the screen and the center of the lens
b: Distance from the floor to the center of the lens
c: Distance from the floor to the foot of the projector
x: Free
Wall
Center of the screen
Distance from the front of the cabinet and the center of the lens
Center of the lens
38 mm (1 1/2 inches)
x
b
c
Floor
a

Unit: mm (inches)

Screen size (inches)		40	60	80	100	120	150	180	200	250	300
a	Minimum	1550 (61 1/8)	2370 (93 3/8)	3180 (125 1/4)	4000 (157 1/2)	4820 (189 7/8)	6050 (238 1/4)	7270 (286 1/4)	8090 (318 5/8)	10130 (398 7/8)	12180 (479 5/8)
	Maximum	1960 (77 1/4)	2990 (117 3/4)	4010 (157 7/8)	5040 (198 1/2)	6060 (238 5/8)	7600 (299 1/4)	9140 (359 7/8)	10160 (400)	12720 (500 7/8)	15280 (601 5/8)
b		x–302 (12)	x–452 (17 7/8)	x–603 (23 3/4)	x–754 (29 3/4)	x–905 (35 3/4)	x–1131 (44 5/8)	x–1357 (53 1/2)	x–1508 (59 3/8)	x–1885 (74 1/4)	x–2262 (89 1/8)
c		x–385 (15 1/4)	x–536 (21 1/8)	x–686 (27 1/8)	x–837 (33)	x–988 (39)	x–1214 (47 7/8)	x–1440 (56 3/4)	x–1591 (62 3/4)	x–1968 (77 1/2)	x–2345 (92 3/8)

To calculate the installation measurement (unit: mm)

SS: screen size diagonal (inches)
a (minimum) = {(SS × 50.249/1.26) – 84} × 1.025
a (maximum) = {(SS × 66.195/1.26) – 87} × 0.975
b = x – (SS/1.26 × 9.5)
c = x – (SS/1.26 × 9.5 + 83.3)

When the XGA or SXGA signal is input
a (minimum) = {(SS × 50.249/1.29) – 84} × 1.025
a (maximum) = {(SS × 66.195/1.29) – 87} × 0.975
b = x – (SS/1.29 × 9.5)
c = x – (SS/1.29 × 9.5 + 83.3)

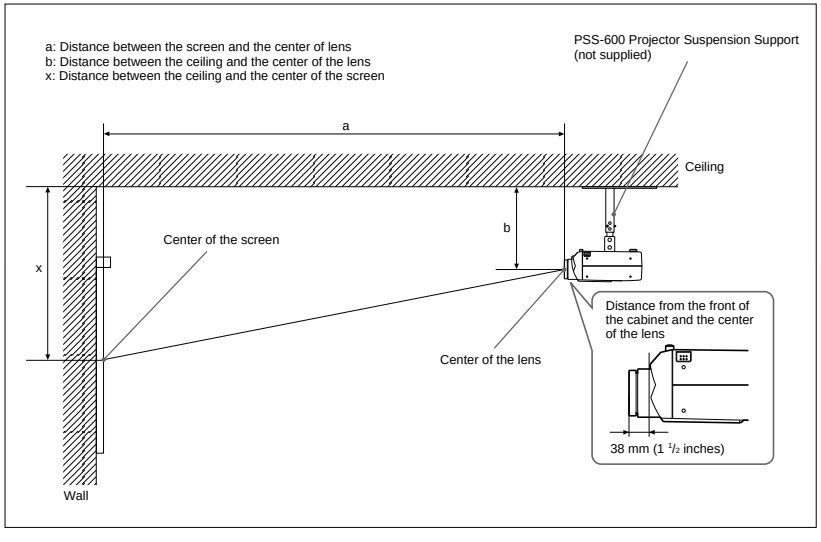
When the Macintosh 16-inch mode or HDTV signal is input
a (minimum) = {(SS × 50.249/1.31) – 84} × 1.025
a (maximum) = {(SS × 66.195/1.31) – 87} × 0.975
b = x – (SS/1.31 × 9.5)
c = x – (SS/1.31 × 9.5 + 83.3)

Installation Examples

Ceiling Installation

When installing the projector on the ceiling, use the PSS-600 Projector Suspension Support.

For ceiling installation, consult with qualified Sony personnel.


a: Distance between the screen and the center of lens
b: Distance between the ceiling and the center of the lens
x: Distance between the ceiling and the center of the screen
PSS-600 Projector Suspension Support (not supplied)
a
Ceiling
b
x
Center of the screen
Center of the lens
Distance from the front of the cabinet and the center of the lens
38 mm (1 1/2 inches)
Wall

Unit: mm (inches)

Screen size (inches)		80	100	120	150	180	200	250	300
a	Minimum	3180 (125 1/4)	4000 (157 1/2)	4820 (189 7/8)	6050 (238 1/4)	7270 (286 1/4)	8090 (318 5/8)	10130 (398 7/8)	12180 (479 5/8)
	Maximum	4010 (157 7/8)	5040 (198 1/2)	6060 (238 5/8)	7600 (299 1/4)	9140 (359 7/8)	10160 (400)	12720 (500 7/8)	15280 (601 5/8)
x		b+603 (23 3/4)	b+754 (29 3/4)	b+905 (35 3/4)	b+1131 (44 5/8)	b+1357 (53 1/2)	b+1503 (59 1/4)	b+1885 (74 1/4)	b+2262 (89 1/8)
b		226/251/276/326/351/376 mm (9/10/10 7/8/12 7/8/13 7/8/14 7/8 inches) adjustable when using PSS-600							

To calculate the installation measurement (unit: mm)

SS: screen size diagonal (inches)
a (minimum) = {(SS × 50.249/1.26) – 84} × 1.025
a (maximum) = {(SS × 66.195/1.26) – 87} × 0.975
x = b + SS/1.26 × 9.5

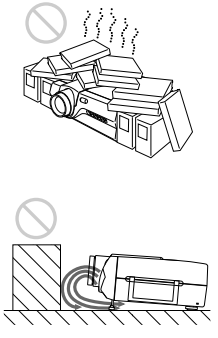
When the XGA or SXGA signal is input
a (minimum) = {(SS × 50.249/1.29) – 84} × 1.025
a (maximum) = {(SS × 66.195/1.29) – 87} × 0.975
x = b + SS/1.29 × 9.5

When the Macintosh 16-inch mode or HDTV signal is input
a (minimum) = {(SS × 50.249/1.31) – 84} × 1.025
a (maximum) = {(SS × 66.195/1.31) – 87} × 0.975
x = b + SS/1.31 × 9.5

Unsuitable Installation

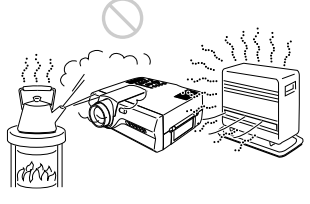
Do not install the projector in the following situations. These installations may cause mulfunction or damage to the projector.

Poorly ventilated



- Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes. When the internal heat builds up due to the block-up, the temperature sensor will function with the message “High Temperature! Power off in 1 min.” The power will be turned off automatically after one minute.
- Leave space of more than 30 cm (11 7/8 inches) around the front ventilation holes.
- Be careful that the bottom ventilation holes may inhale tininess such as a piece of paper.
- If you put something in front of the front ventilation holes, the exhaust may be inhaled into the projector through the ventilation holes at the bottom, causing the internal temperature to rise, which activates the protection circuit. Install the projector so that the exhaust is not blocked.

Highly heated and humid



- Avoid installing the unit in a location where the temperature or humidity is very high, or temperature is very low.
- To avoid moisture condensation, do not install the unit in a location where the temperature may rise rapidly.

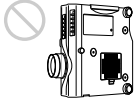
Very dusty

Avoid installing the unit in a location where there is a lot of dust; otherwise, the air filter will be obstructed. The dust blocking the air through the filter may cause raising the internal heat of the projector. Clean it up periodically.

Notes on Installation

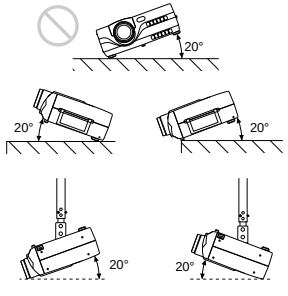
Carry out the followings.

No toppling of the unit



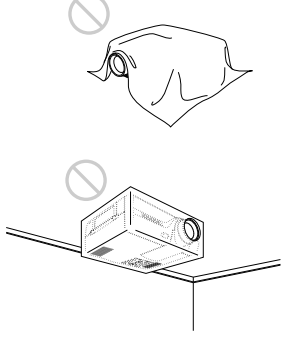
Avoid using as the unit topples over on its side. It may cause malfunction.

Use to be level



Avoid using as the unit titles more than 20 degrees. Do not install the unit other than on the floor or ceiling. These installation may cause malfunction.

No blocking the ventilation holes



Avoid using something to cover over the front ventilation holes; otherwise, the internal heat may build up.

Use the supplied front cover only when the power is turned off. Do not turn on the projector with the front cover on. It may cause malfunction.

Maintenance

Note on the Time to Replace the Lamp

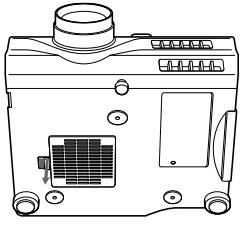
When it is time to replace the lamp, replace the lamp promptly with a new LMP-600 Projector Lamp.
For details on replacement, refer to the instruction manual supplied with the LMP-600 Projector Lamp.

Cleaning the Air Filter

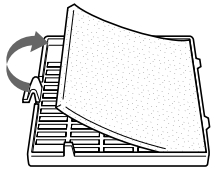
The air filter should be cleaned every 300 hours. When it becomes difficult to remove the dust from the filter, replace the filter with a new one.
To clean the air filter, follow the steps below:

1 Turn off the power and unplug the power cord.

2 Remove the air filter cover on the bottom of the projector.



3 Remove the air filter.



4 Remove the dust from the filter with a vacuum cleaner.

5 Attach the air filter and replace the cover.

Notes

- If the air filter is excessively dirty, wash it with a mild detergent solution and dry it in a shaded place. If the dust cannot be removed, replace the air filter with the supplied new one.
- Be sure to attach the air filter cover firmly; the power will not be turned on if it is not closed securely.

Troubleshooting

If the projector appears to be operating erratically, try to diagnose and correct the problem, using the following guide. If the problem still persists, consult with qualified Sony personnel.

Symptom	Cause	Remedy
The power is not turned on.	The power has been turned off and on with the I / ⏻ key at a short internal.	Wait for about one minute before turning on the power *(see page 22 (EN))*.
No picture and no sound.	The lamp cover is detached.	Close the lamp cover securely.
	The air filter cover is detached.	Close the air filter cover securely *(see page 37 (EN))*.
	Cable is disconnected.	Check that the proper connections have been made *(see pages 18 (EN) to 21 (EN))*.
	Wrong connection.	Check that the proper connections have been made *(see pages 18 (EN) to 21 (EN))*.
	Input selection is incorrect.	Select the input source correctly using the INPUT key *(see page 22 (EN))*.
No picture or no sound.	Either the picture or the sound is cut off.	Press the MUTING keys to release the muting function *(see page 23 (EN))*.
No picture.	The computer signal is not set to output to external monitor.	Set the computer signal to output to external monitor *(see page 18 (EN))*.
	The computer signal is set to output to both the LCD of the computer and external monitor.	Set the computer signal to output only to external monitor *(see page 18 (EN))*.
The picture is noisy.	Noise may appear on the background depending on the combination of the numbers of dot input from the connector and numbers of pixel on the LCD panel.	Change the desktop pattern on the connected computer.
When inputting sound through INPUT A/B connector, sound comes through one channel only.	Monaural sound is being input through the INPUT A/B connector.	Input stereo sound.
The picture from INPUT A/B connector is colored strange.	Setting for INPUT-A/INPUT-B in the SET SETTING menu is incorrect.	Select RGB or COMPONENT for INPUT-A or INPUT-B in the SET SETTING menu according to the input signal *(see page 31 (EN))*.
"Please check INPUT-A in SET SETTING." appears in spite of inputting the correct signal from INPUT A.	Setting for INPUT-A in the SET SETTING menu is incorrect.	Select RGB or COMPONENT for INPUT-A in the SET SETTING menu according to the input signal *(see page 31 (EN))*.
"Please check INPUT-B in SET SETTING." appears in spite of inputting the correct signal from INPUT B.	Setting for INPUT-B in the SET SETTING menu is incorrect.	Select RGB or COMPONENT for INPUT-B in the SET SETTING menu according to the input signal *(see page 31 (EN))*.
"NO INPUT" appears when 15k RGB or component signal is input.	The sync signal is incorrect.	Input the correct sync signal (composite sync or sync on G signal (sync on Y for component signal)).
On-screen displays do not appear.	STATUS in the SET SETTING menu has been set to OFF.	Set STATUS in the SET SETTING menu to ON *(see page 31 (EN))*.
Color balance is incorrect.	Picture has not been adjusted properly.	Adjust the picture *(see pages 26 (EN) and 27 (EN))*.
	Projector is set to wrong color system.	Set COLOR SYS in the PICTURE CTRL menu to match the color system being input *(see page 27 (EN))*.
The picture is too dark.	Contrast or brightness has not been adjusted properly.	Adjust the contrast or brightness in the PICTURE CTRL menu properly *(see page 26 (EN))*.
The picture is not clear.	Picture is out of focus.	Adjust the focus *(see page 23 (EN))*.
	Condensation has occurred on the lens.	Leave the projector for about two hours with the power on *(see page 35 (EN))*.

Symptom	Cause	Remedy
The LAMP/COVER indicator flashes.	The lamp cover or the air filter cover is detached.	Attach the cover securely *(see page 37 (EN))*.
The LAMP/COVER indicator lights up.	The lamp has reached the end of its life.	Replace the lamp *(see page 37 (EN))*.
The TEMP/FAN indicator flashes.	The fan is broken.	Consult with qualified Sony personnel.
The TEMP/FAN indicator lights up.	The internal temperature is unusually high.	Check to see if nothing is blocking the ventilation holes.
The Remote Commander does not work.	The Remote Commander batteries are dead.	Replace with new batteries *(see page 16 (EN))*.
	The COMMANDER ON/OFF switch is set to the OFF position.	Set the switch to ON position *(see page 16 (EN))*.
	You are using the Remote Commander as a wireless Remote Commander, and it is connected to the projector.	Disconnect the cable.
	The front/rear remote commander detector is near the fluorescent lamp.	Change the setting of SIRCS RECEIVER in the SET SETTING menu *(see page 32 (EN))*.
The laser pointer is not emitted.	The batteries are dead.	Replace with new batteries *(see page 16 (EN))*.
	The Remote Commander is used as wired without batteries.	Install batteries *(see page 16 (EN))*.
The joystick, R CLICK, or L CLICK key does not function.	The mouse port on the computer does not recognize the mouse cable.	Restart the computer.

Warning messages

Use the list below to check the meaning of the messages displayed on the screen.

Message	Meaning	Remedy
High Temperature! Power off in 1 min.	Internal temperature is too high.	Turn off the power. Check to see if nothing is blocking the ventilation holes.
Frequency is out of range!	This input signal cannot be projected as the frequency is out of the acceptable range of the projector.	Input a signal that is within the range of the frequency.
	The resolution setting of the output signal of a computer is too high.	Set the setting of output to the SVGA.
Please check INPUT-A in SET SETTING.	You have input RGB signal from the computer when INPUT-A in the SET SETTING menu is set to COMPONENT.	Set INPUT-A correctly.
Please check INPUT-B in SET SETTING.	You have input RGB signal from the computer when INPUT-B in the SET SETTING menu is set to COMPONENT.	Set INPUT-B correctly.

Caution messages

Use the list below to check the meaning of the messages displayed on the screen.

Message	Meaning	Remedy
NO INPUT	No input signal	Check connections.
Not applicable!	You have pressed the wrong key.	Press the appropriate key.

http://getMANUAL.com

Specifications

Optical characteristics

Projection system: 3 LCD panels, 1 lens, projection system
LCD panel: 1.3-inch TFT LCD panel, 1,557,504 pixels (519,168 pixels × 3)
Lens: 1.3 times zoom lens f 50 to 65 mm/F 2.5 to 3.0
Lamp: 120 W UHP
Projection picture size
Range: 40 to 300 inches (diagonal measure)
Light output: ANSI lumen[1] 650 lm
Throwing distance (When the SVGA signal is input)
40-inch: 1550 to 1960 mm (61 1/8 to 77 1/4 inches)
80-inch: 3180 to 4010 mm (125 1/4 to 157 7/8 inches)
100-inch: 4000 to 5040 mm (157 1/2 to 198 1/2 inches)
120-inch: 4820 to 6060 mm (189 7/8 to 238 5/8 inches)
200-inch: 8090 to 10160 mm (318 5/8 to 400 inches)
300-inch: 12180 to 15280 mm (479 5/8 to 601 5/8 inches)

Electrical characteristics

Color system: NTSC3.58/PAL/SECAM/NTSC4.43/PAL-M system, switched automatically/manually
Resolution: 600 horizontal TV lines (Video input)
832 × 624 dots (RGB input)
Acceptable computer signals
fH:15, 24 to 81 kHz
fV:43 to 85 Hz
Speaker: Wide frequency range 3 speakers system,
Woofer: 57 mm (2 1/4 inches) diameter, max. 1 W
Tweeter: 28 mm (1 1/8 inches) diameter, max. 0.2 W × 2 (stereo)

Input/Output

VIDEO IN (only for VPL-S600U/M)
VIDEO: phono type
Composite video: 1 Vp-p ±2 dB sync negative (75 ohms terminated)
S VIDEO: Y/C mini DIN 4-pin type (male)
Y (luminance): 1 Vp-p ±2 dB sync negative (75 ohms terminated)
C (chrominance): burst 0.286 Vp-p ±2 dB (NTSC) (75 ohms terminated), burst 0.3 Vp-p ±2 dB (PAL) (75 ohms terminated)
AUDIO IN (only for VPL-S600U/M)
Phono type × 2
500 mVrms, impedance more than 47 kilohms
INPUT A/INPUT B
HD D-sub15-pin (female)
Analog RGB/component:
R/R-Y: 0.7 Vp-p ±2 dB (75 ohms terminated)
G: 0.7 Vp-p ±2 dB (75 ohms terminated)
G with sync/Y: 1 Vp-p ±2 dB sync negative (75 ohms terminated)
B/B-Y: 0.7 Vp-p ±2 dB (75 ohms terminated)
SYNC/HD:
Composite sync input: 1-5 Vp-p high impedance, positive/negative
Horizontal sync input: 1-5 Vp-p high impedance, positive/negative
VD:
Vertical sync input: 1-5 Vp-p high impedance, positive/negative
HDTV GBR:
G/B/R: 0.7 Vp-p ±2 dB (75 ohms terminated)
HD/VD: 1-5 Vp-p high impedance, sync negative
MOUSE (output): 13-pin (female)
(For details, see "Pin assignment" on page 42 (EN).)
AUDIO: Stereo minijack
500 mVrms, impedance more than 47 kilohms
AUDIO OUT (variable out): stereo minijack
Max. 1 Vrms, when an output signal is 500 mVrms, impedance less than 5 kilohms
CONTROL S IN/PLUG IN POWER
Stereo minijack
5 Vp-p, plug in power, DC 5 V maximum output 60 mA
Safety regulations: VPL-S600U: UL1950, cUL (CSA C22.2 No.950), FCC Class A, IC Class A, DHHS
VPL-S600E/S600M: EN60 950 EN60825-1, CE, C-Tick

Laser beam

Laser type: Class 2
Wavelength: 670 nm
Output: 1 mW

General

Dimensions: 333 × 120 × 291 mm (13 1/4 × 4 3/4 × 11 1/2 inches) (w/h/d) (excluding lens, adjusters, and protruding parts)
339 × 136 × 322 mm (13 3/8 × 5 3/8 × 12 3/4 inches) (w/h/d)
Mass: Approx. 5.8 kg (12 lb 13 oz)
Power requirements
AC 100 to 120 V/ 220 to 240 V, 2A/0.9A, 50/60 Hz
Power consumption
Max. 220 W (Standby mode: 16 W)
Heat dissipation: 750.7 BTU
Operating temperature
0°C to 40°C (32°F to 104°F)
Operating humidity
35% to 85% (no condensation)
Storage temperature
–20°C to 60°C (–4°F to 140°F)
Storage humidity: 10% to 90%
Supplied accessories
Remote Commander RM-PJM600 (1)
Size AA (R6) batteries (2)
Video Signal Cable SMF-401 (1)
Signal Adapter (for Macintosh) (1)
Mouse Cable
SIC-S20 (for Macintosh) (2 m) (1)
SIC-S21 (for Serial) (2 m) (1)
SIC-S22 (for PS/2) (2 m) (1)
Audio/video cable (1.5 m) (1) (except for VPL-S600E)
Strap for Remote Commander (1)
AC power cord (1)
Lens cap (1)
Front cover (1)
Air filter (for replacement) (1)
Operating Instructions (1)
Installation Manual for Dealers (1)
Quick Reference Card (1)
Warranty Card (1) (only for VPL-S600U)

Design and specifications are subject to change without notice.

Optional accessories

Projector Lamp LMP-600[1] (for replacement)
Projector Suspension Support PSS-600
Interface Board IFB-X600E (only for VPL-S600E)
Video Signal Cable
SMF-400 (HD D-sub 15-pin (male) ⟷ 5 × BNC (male))
SMF-401 (HD D-sub 15-pin (male) ⟷ HD D-sub 15-pin (male))
Signal Cable
SMF-402 (HD D-sub 15-pin (male) ⟷ 3 × phono type (male))
Mouse Cable
SIC-S20 (for Macintosh) (2 m)
SIC-S21 (for Serial) (2 m)
SIC-S22 (for PS/2) (2 m)
Signal Adapter ADP-20 (Macintosh ⟷ HD D-sub 15-pin)
Projection Lens
2 times Zoom Long Focus Lens VPLL-ZM100
Fixed Short Focus Lens VPLL-FM20
Fixed Short Focus Lens VPLL-FM30
Carrying Case VLC-600[1]
Screens
80-inch Portable VPS-80C
100-inch Flat Screen VPS-100FH
120-inch Flat Screen VPS-120FH

Some of the items may not be available in some areas. For details, please consult your nearest Sony office.

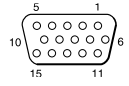
1) ANSI lumen is a measuring method of American National Standard IT 7.228.

1) LMP-600 and VLC-600 may not be available in some areas. For details, please consult your nearest Sony office.

Specifications

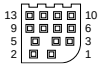
Pin assignment

RGB connector (HD D-sub 15-pin, female)



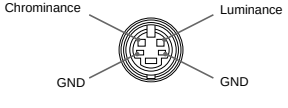
1	R/R-Y	9	N.C.
2	G/Y	10	GND
3	B/B-Y	11	GND
4	N.C.	12	N.C.
5	GND	13	HD/C.Sync
6	GND (R)	14	VD
7	GND (G)	15	N.C.
8	GND (B)		

MOUSE connector (13-pin, female)



1	RTS	8	R
2	GND	9	98/AT/TXD
3	XA	10	+5V/DTR
4	XB	11	CLOCK
5	YA	12	DATA
6	YB	13	RXD
7	L/PS		

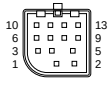
S VIDEO jack (4 pin, mini-DIN)



Mouse cable pin assignment

SIC-S20

13-pin



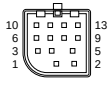
1	RTS	8	R
2	GND	9	98/AT/TXD
3	XA	10	+5V/DTR
4	XB	11	CLOCK
5	YA	12	DATA
6	YB	13	RXD
7	L/PS		

mini DIN 4-pin

1	ADB
2	NC
3	+5V
4	GND

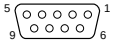
SIC-S21

13-pin



1	RTS	8	R
2	GND	9	98/AT/TXD
3	XA	10	+5V/DTR
4	XB	11	CLOCK
5	YA	12	DATA
6	YB	13	RXD
7	L/PS		

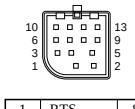
D-sub 9-pin



1	DCD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI

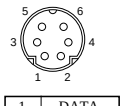
SIC-S22

13-pin



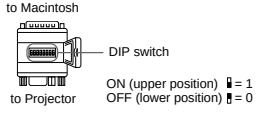
1	RTS	8	R
2	GND	9	98/AT/TXD
3	XA	10	+5V/DTR
4	XB	11	CLOCK
5	YA	12	DATA
6	YB	13	RXD
7	L/PS		

mini DIN 6-pin



1	DATA
2	NC
3	GND
4	+5V
5	CLOCK
6	NC

Switch position for signal adapter

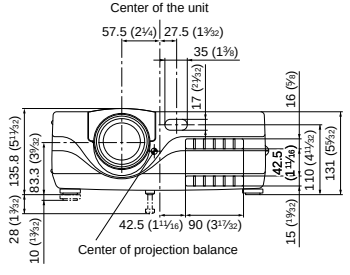


Mode	fH	DIP switch 12345678
VGA/S VGA	31.5 kHz/37.8 kHz	00111001
Macintosh 13”	35.0 kHz	11001001
Macintosh 16”	49.7 kHz	01011001
Macintosh 19”	60.2 kHz	01101001
Macintosh 21”	68.7 kHz	11111001
Macintosh 1280 × 960	75.0 kHz	11001101
Macintosh 1280 × 1024	75.0 kHz	11001101

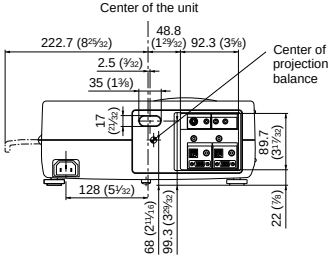
Specifications

Dimensions

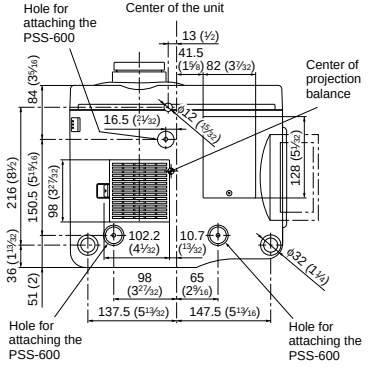
Front



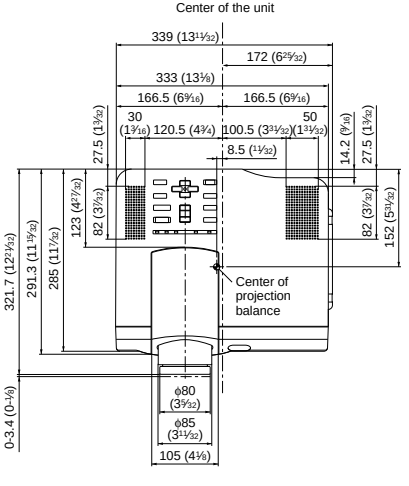
Rear



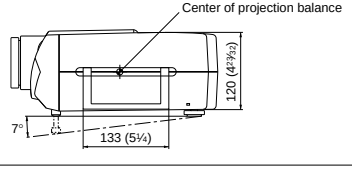
Bottom



Top

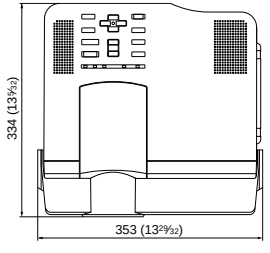


Side



Unit: mm (inches)

Top (with the front cover)



Unit: mm (inches)

SONY

3-862-351-**12** (1)

LCD Data Projector

Installation Manual for Dealers EN

Manuel d'installation destiné aux revendeurs F

Manual de instalación para proveedores ES

VPL-X600U/X600E/X600M
VPL-S600U/S600E/S600M

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English

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Precautions

On safety

- Check that the operating voltage of your unit is identical with the voltage of your local power supply. If voltage adaptation is required, consult with qualified Sony personnel.
- Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by qualified Sony personnel before operating it further.
- Unplug the unit from the wall outlet if it is not to be used for several days.
- To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- The wall outlet should be near the unit and easily accessible.
- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- Do not look into the lens while the lamp is on.
- Do not place your hand or objects near the ventilation holes — the air coming out is hot.
- Avoid using an extension cord with a low voltage limited since it may cause the short-circuit and physical incidents.
- To carry the projector, be sure to use the carrying handle. Do not hold other parts of the projector, especially the lens, nor catch your finger between the handle, floor, and the projector.
- Do not catch your finger between the unit and surface of the floor when moving the projector installed on the floor.
- Be careful not to catch your finger in the cooling fan.
- Do not carry the projector with the cabinet on and with its cover open.

On installation

- When the projector is mounted on the ceiling, the Sony PSS-600 Projector Suspension Support must be used for installation.
- Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes. Leave space of more than 30 cm (11 $^{7}/_{8}$ inches) between the wall and the projector. Be aware that room heat rises to the ceiling; check that the temperature near the installation location is not excessive.
- Install the projector on the floor or ceiling. Any other installation causes a mulfunction such as color irregularity or shortening lamp life.
- Do not install the unit in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust or humidity, mechanical vibration or shock.
- To avoid moisture condensation, do not install the unit in a location where the temperature may rise rapidly.
- Be sure to secure the cabinet cover firmly when installing to the ceiling firmly.

Precautions

On illumination

- To obtain the best picture, the front of the screen should not be exposed to direct lighting or sunlight.
- Ceiling-mounted spot lighting is recommended. Use a cover over fluorescent lamps to avoid lowering the contrast ratio.
- Cover any windows that face the screen with opaque draperies.
- It is desirable to install the projector in a room where floor and walls are not of light-reflecting material. If the floor and walls are of reflecting material, it is recommended that the carpet and wall paper be changed to a dark color.

On preventing internal heat build-up

- After you turn off the power with the I / ⏻ key on the control panel or on the Remote Commander, do not disconnect the unit from the wall outlet while the cooling fan is still running.
- Do not disconnect the AC power cord from the wall outlet while the fan is still running.

Caution

The projector is equipped with ventilation holes (intake) at the bottom and ventilation holes (exhaust) at the front. Do not block or place anything near these holes, or internal heat build-up may occur, causing picture degradation or damage to the projector.

On cleaning

- To keep the cabinet looking new, periodically clean it with a soft cloth. Stubborn stains may be removed with a cloth lightly dampened with a mild detergent solution. Never use strong solvents, such as thinner, benzene, or abrasive cleansers, since these will damage the cabinet.
- Avoid touching the lens. To remove dust on the lens, use a soft dry cloth. Do not use a damp cloth, detergent solution, or thinner.
- Clean the filter at regular intervals.

On repacking

- Save the original shipping carton and packing material; they will come in handy if you ever have to ship your unit. For maximum protection, repack your unit as it was originally packed at the factory.

Overview

This manual describes how to install the Sony LCD Data Projector VPL-X600U/E/M and VPL-S600U/E/M, how to replace the lens, how to change the lens position for rear projection (optical axis angle: 0 degree), and installation diagrams. When you replace the lens or change the lens position, also refer to the Operating Instructions.

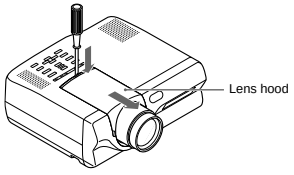
Replacing the Lens

You can install the following two types of lenses in the projector.
• VPLL-ZM100 2 times Zoom long focus lens
• VPLL-FM30 Fixed short focus lens

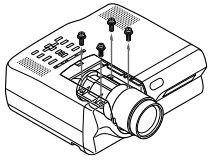
Follow the steps below to replace the lens.
For details on replacing the lens, also refer to the installation manual supplied with the lens.

1 Turn off the power and disconnect the power cable.

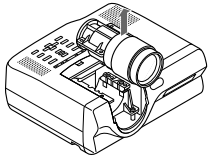
2 Remove the lens hood. To remove the lens hood, insert a screwdriver into the lens hood slit then lightly push down on the hood with the screwdriver and slide the lens hood forward.



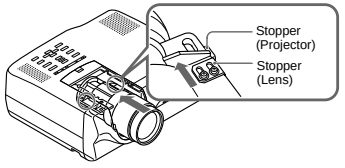
3 Remove the four screws (M4×12, with washers) locking the lens by using a Philips screwdriver.



4 Lift and remove the lens.

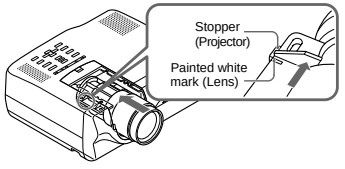


5 Install the lens with the lens stopper and the projector stopper met at their edges.



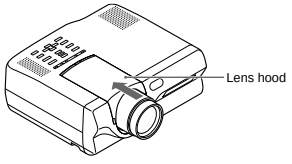
Note
For ease in identification when you install the lens, make sure that the label on the lens is facing up.

When the lens does not have a stopper
Align the painted white mark (▭) on the lens with the edge of the stopper in the projector.



6 Tighten the four screws to secure the replacement lens firmly.

7 Install the lens hood by sliding it from front to back until it snaps into the lock position.



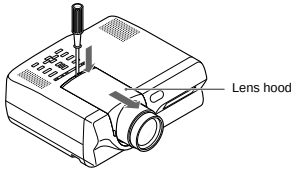
Notes
• The lens scratches easily, so when handling it, always place it gently on a stable and level surface in a horizontal position.
• Avoid touching the lens surface.

Changing the Lens Position for Rear Projection (Optical Axis Angle: 0 degree)

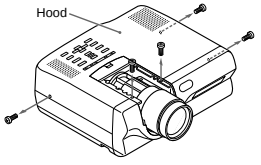
For rear projection, you can set the optical axis angle to 0 (zero). In this case, you will need to set the lens position as follows.
You can install the following types of lenses for a zero optical axis angle.
• Standard lens
• VPLL-ZM100 2 times Zoom long focus lens
• VPLL-FM30 Fixed short focus lens
• VPLL-FM20 Fixed short focus lens

1 Turn off the power and disconnect the power cable.

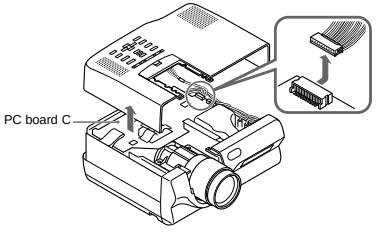
2 Remove the lens hood. To remove the lens hood, insert a screwdriver into the lens hood slit then lightly push down on the hood with the screwdriver and slide the lens hood forward.



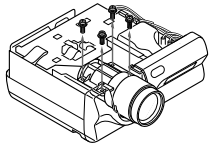
3 Remove the three black screws (M3×8) on the both sides and two black screws (M3×8) on the top locking the hood.



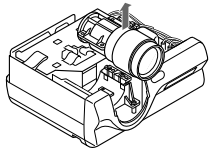
4 Disconnect the 12-pin connector (connected to the PC board C) from the hood. Lift the hood and set it behind the unit.



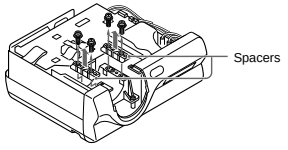
5 Remove the lens hood locking the lens by loosening the four screws (M4×12, with washers) with a Philips screwdriver.



6 Lift and remove the lens.

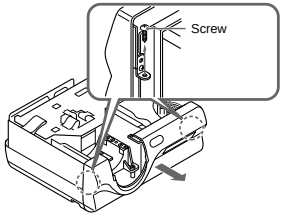


7 Remove the left and right spacers by loosening the four screws (M4×12, with washers).



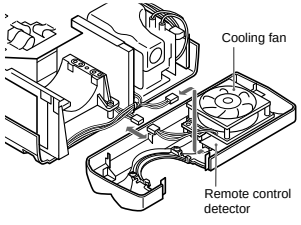
Note
The spacer and the screws may be needed later on. Store them.

8 Loosen the two screws (M3×8, with washers) locking the front panel.

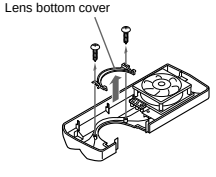


Changing the Lens Position for Rear Projection (Optical Axis Angle: 0 degree)

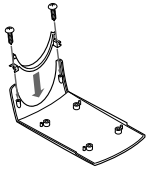
9 Disconnect the two connectors on the back of the front panel, one for cooling fan and the other for remote control detector, and then remove the front panel.



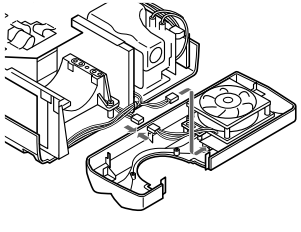
10 Remove the two tapping screws (3×8) from the front panel. Remove the lens bottom cover.



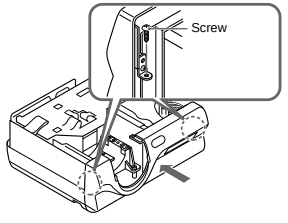
11 Install the lens bottom cover on the lens hood (removed in Step **2**) with the two screws.



12 Connect the connector for remote control detector and the connector for cooling fan.



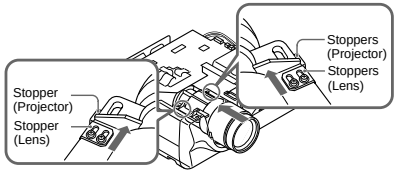
13 Install the front panel and lock with the two screws (M3×8, with washers).



14 Install the lens with the lens stopper and the projector stopper met at their edges.

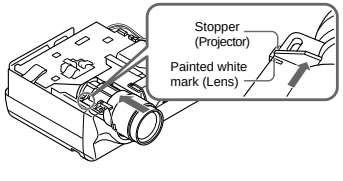
Notes

- When you install the standard lens, make sure that lens stoppers and projector stoppers are met on both sides.
- For ease in identification when you install the lens, make sure that the label on the lens is facing up.

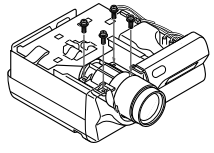


When the lens does not have a stopper

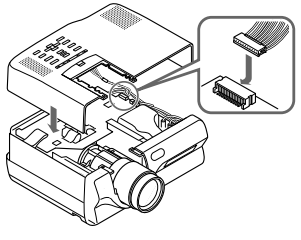
Align the painted white mark (▭) on the lens with the edge of the stopper in the projector.



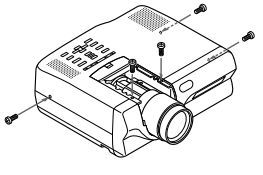
15 Lock the lens by tightening the four screws (M4×12, with washers).



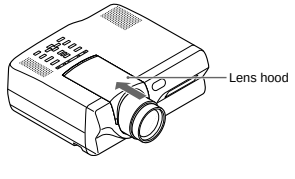
16 Connect the 12-pin connector to the PC board C (disconnected in Step **4**).



17 Install the hood and lock with the five screws (M3×8).

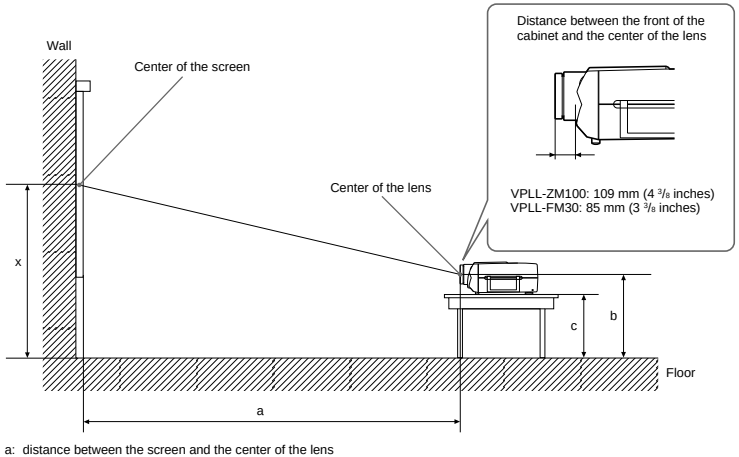


18 Install the lens hood by sliding it from front to back until it snaps into position.



Installation Diagram

Floor Installation (Front Projection)



a: distance between the screen and the center of the lens
b: distance between the floor and the center of the lens
c: distance between the floor and the bottom of the projector
x: free

When using the VPLL-ZM100 2 times Zoom long focus lens

For the VPL-X600U/E/M

Unit: mm (inches)

Screen size (inches)		80	100	120	150	180	200	250	300
a	Minimum	4370 (172 1/8)	5500 (216 1/8)	6630 (261 1/8)	8330 (328)	10020 (394 1/2)	11150 (439)	13980 (550 1/2)	16810 (661 7/8)
	Maximum	8340 (328 3/8)	10430 (410 3/4)	12520 (493)	15650 (616 1/4)	18790 (739 7/8)	20880 (822 1/8)	26100 (1027 3/8)	31320 (1233 1/8)
b		x–580 (x–22 7/8)	x–725 (x–28 5/8)	x–870 (x–34 3/8)	x–1088 (x–42 7/8)	x–1305 (x–51 1/2)	x–1450 (x–57 1/8)	x–1813 (x–71 1/2)	x–2176 (x–85 3/4)
c		x–663 (x–26 1/8)	x–808 (x–31 7/8)	x–954 (x–37 5/8)	x–1171 (x–46 1/8)	x–1389 (x–54 3/4)	x–1534 (x–60 1/2)	x–1896 (x–74 3/4)	x–2259 (x–89)

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a min = (SS × 72.290/1.31 – 155) × 1.025
a max = (SS × 140.374/1.31 – 20) × 0.975
b = x – SS/1.31 × 9.5
c = x – (SS/1.31 × 9.5 + 83.3)

For the VPL-S600U/E/M

Unit: mm (inches)

Screen size (inches)		80	100	120	150	180	200	250	300
a	Minimum	4550 (179 1/4)	5720 (225 1/4)	6900 (271 3/4)	8660 (341)	10430 (410 3/4)	11600 (456 3/4)	14540 (572 1/2)	17480 (688 1/4)
	Minimum	8670 (341 3/8)	10840 (426 7/8)	13020 (512 5/8)	16270 (640 5/8)	19530 (769)	21710 (854 3/4)	27140 (1068 5/8)	32570 (1282 3/8)
b		x–603 (x–23 3/4)	x–754 (x–29 3/4)	x–905 (x–35 3/4)	x–1131 (x–44 5/8)	x–1357 (x–53 1/2)	x–1508 (x–59 3/8)	x–1885 (x–74 1/4)	x–2262 (x–89 1/8)
c		x–686 (x–27 1/8)	x–837 (x–33)	x–988 (x–39)	x–1214 (x–47 7/8)	x–1440 (x–56 3/4)	x–1591 (x–62 3/4)	x–1968 (x–77 1/2)	x–2345 (x–92 3/8)

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a min = (SS × 72.290/1.26 – 155) × 1.025
a max = (SS × 140.374/1.26 – 20) × 0.975
b = x – SS/1.26 × 9.5
c = x – (SS/1.26 × 9.5 + 83.3)

XGA/SXGA signal input
a min = (SS × 72.290/1.29 – 155) × 1.025
a max = (SS × 140.374/1.29 – 20) × 0.975
b = x – SS/1.29 × 9.5
c = x – (SS/1.29 × 9.5 + 83.3)

Macintosh 16-inch mode signal (horizontal 832 × vertical 624)/HDTV input
Refer to the table of the VPL-X600U/E/M.

Installation Diagram

When using the VPLL-FM30 Fixed short focus lens

For the VPL-X600U/E/M

Unit: mm (inches)

Screen size (inches)	40	60	80	100	120	150	180	200	250	290
a	1080 (42 5/8)	1650 (65)	2220 (87 1/2)	2790 (109 7/8)	3360 (132 3/8)	4210 (165 3/4)	5070 (199 5/8)	5640 (222 1/8)	7060 (278)	8200 (322 7/8)
b	x–290 (x–11 1/2)	x–435 (x–17 1/4)	x–580 (x–22 7/8)	x–725 (x–28 5/8)	x–870 (x–34 3/8)	x–1088 (x–42 7/8)	x–1305 (x–51 1/2)	x–1450 (x–57 1/8)	x–1813 (x–71 1/2)	x–2103 (x–82 7/8)
c	x–373 (x–14 3/4)	x–518 (x–20 1/2)	x–663 (x–26 1/8)	x–808 (x–31 7/8)	x–954 (x–37 5/8)	x–1171 (x–46 1/8)	x–1389 (x–54 3/4)	x–1534 (x–60 1/2)	x–1896 (x–74 3/4)	x–2186 (x–86 1/8)

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a = 37.313 × SS/1.31 – 60
b = x – SS/1.31 × 9.5
c = x – (SS/1.31 × 9.5 + 83.3)

For the VPL-S600U/E/M

Unit: mm (inches)

Screen size (inches)	40	60	80	100	120	150	180	200	250	270
a	1120 (44 1/8)	1720 (67 3/4)	2310 (91)	2900 (114 1/4)	3490 (137 1/2)	4380 (172 1/2)	5270 (207 1/2)	5860 (230 3/4)	7340 (289)	7940 (312 5/8)
b	x–302 (x–12)	x–452 (x–17 7/8)	x–603 (x–23 3/4)	x–754 (x–29 3/4)	x–905 (x–35 3/4)	x–1131 (x–44 5/8)	x–1357 (x–53 1/2)	x–1508 (x–59 3/8)	x–1885 (x–74 1/4)	x–2036 (x–80 1/4)
c	x–385 (x–15 1/4)	x–536 (x–21 1/8)	x–686 (x–27 1/8)	x–837 (x–33)	x–988 (x–39)	x–1214 (x–47 7/8)	x–1440 (x–56 3/4)	x–1591 (x–62 3/4)	x–1968 (x–77 1/2)	x–2119 (x–83 1/2)

Method of calculation (unit: mm)

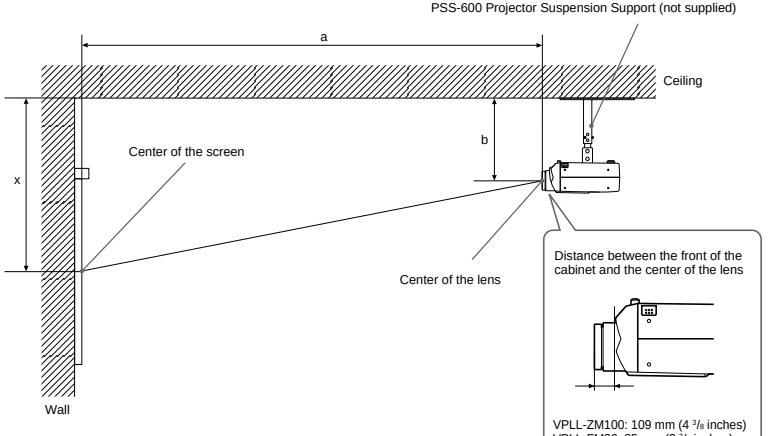
SS: Screen size diagonal (inches)
a = 37.313 × SS/1.26 – 60
b = x – SS/1.26 × 9.5
c = x – (SS/1.26 × 9.5 + 83.3)

XGA/SXGA signal input
a = 37.313 × SS/1.29 – 60
b = x – SS/1.29 × 9.5
c = x – (SS/1.29 × 9.5 + 83.3)

Macintosh 16-inch mode signal (horizontal 832 × vertical 624)/HDTV input
Refer to the table of the VPL-X600U/E/M.

Ceiling Installation (Front Projection)

When installing the projector on the ceiling, use the PSS-600 Projector Suspension Support.


PSS-600 Projector Suspension Support (not supplied)
a
Ceiling
b
x
Center of the screen
Center of the lens
Wall
Distance between the front of the cabinet and the center of the lens
VPLL-ZM100: 109 mm (4 3/8 inches)
VPLL-FM30: 85 mm (3 3/8 inches)

a: Distance between the screen and the center of the lens
b: Distance between the ceiling and the center of the lens
x: Distance between the ceiling and the center of the screen

(Continued)

http://getMANUAL.com

Installation Diagram

When using the VPLL-ZM100 2 times Zoom long focus lens

For the VPL-X600U/E/M

Unit: mm (inches)

Screen size (inches)		80	100	120	150	180	200	250	300
a	Minimum	4370 (172 1/8)	5500 (216 1/8)	6630 (261 1/8)	8330 (328)	10020 (394 1/2)	11150 (439)	13980 (550 1/2)	16810 (661 7/8)
	Maximum	8340 (328 3/8)	10430 (410 3/4)	12520 (493)	15650 (616 1/4)	18790 (739 7/8)	20880 (822 1/8)	26100 (1027 5/8)	31320 (1233 1/8)
x		b+580 (b+22 7/8)	b+725 (b+28 5/8)	b+870 (b+34 3/8)	b+1088 (b+42 7/8)	b+1305 (b+51 1/2)	b+1450 (b+57 1/8)	b+1813 (b+71 1/2)	b+2176 (b+85 3/4)
b		When using PSS-600, the height can be adjusted 226, 251, 276, 326, 351, 376 (9, 10, 10 7/8, 12 7/8, 13 7/8, 14 7/8)							

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a min = (SS × 72.290/1.31 – 155) × 1.025
a max = (SS × 140.374/1.31 – 20) × 0.975
x = b + SS × 9.5/1.31

For the VPL-S600U/E/M

Unit: mm (inches)

Screen size (inches)		80	100	120	150	180	200	250	300
a	Minimum	4550 (179 1/4)	5720 (225 1/4)	6900 (271 3/4)	8660 (341)	10430 (410 3/4)	11600 (456 3/4)	14540 (572 1/2)	17480 (688 1/4)
	Maximum	8670 (341 3/8)	10840 (426 7/8)	13020 (512 5/8)	16270 (640 5/8)	19530 (769)	21710 (854 3/4)	27140 (1068 5/8)	32570 (1282 3/8)
x		b+603 (b+23 3/4)	b+754 (b+29 3/4)	b+905 (b+35 3/4)	b+1131 (b+44 5/8)	b+1357 (b+53 1/2)	b+1508 (b+59 3/8)	b+1885 (b+74 1/4)	b+2262 (b+89 1/8)
b		When using PSS-600, the height can be adjusted 226, 251, 276, 326, 351, 376 (9, 10, 10 7/8, 12 7/8, 13 7/8, 14 7/8)							

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a min = (SS × 72.290/1.26 – 155) × 1.025
a max = (SS × 140.374/1.26 – 20) × 0.975
x = b + SS × 9.5/1.26

XGA/SXGA signal input
a min = (SS × 72.290/1.29 – 155) × 1.025
a max = (SS × 140.374/1.29 – 20) × 0.975
x = b + SS × 9.5/1.29

Macintosh 16-inch mode signal (horizontal 832 × vertical 624)/HDTV input
Refer to the table of the VPL-X600U/E/M.

When using the VPLL-FM30 Fixed short focus lens

For the VPL-X600U/E/M

Unit: mm (inches)

Screen size (inches)	80	100	120	150	180	200	250	290
a	2220 (87 1/2)	2790 (109 7/8)	3360 (132 3/8)	4210 (165 3/4)	5070 (199 5/8)	5640 (222 1/8)	7060 (278)	8200 (322 7/8)
x	b+580 (b+22 7/8)	b+725 (b+28 5/8)	b+870 (b+34 3/8)	b+1088 (b+42 7/8)	b+1305 (b+51 1/2)	b+1450 (b+57 1/8)	b+1813 (b+71 1/2)	b+2103 (b+82 7/8)
b	When using PSS-600, the height can be adjusted 226, 251, 276, 326, 351, 376 (9, 10, 10 7/8, 12 7/8, 13 7/8, 14 7/8)							

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a = 37.313 × SS/1.31 – 60
x = b + SS/1.31 × 9.5

For the VPL-S600U/E/M

Unit: mm (inches)

Screen size (inches)	80	100	120	150	180	200	250	270
a	2310 (91)	2900 (114 1/4)	3490 (137 1/2)	4380 (172 1/2)	5270 (207 1/2)	5860 (230 3/4)	7340 (289)	7940 (312 5/8)
x	b+603 (b+23 3/4)	b+754 (b+29 3/4)	b+905 (b+35 3/4)	b+1131 (b+44 5/8)	b+1357 (b+53 1/2)	b+1508 (b+59 3/8)	b+1885 (b+74 1/4)	b+2036 (b+80 1/4)
b	When using PSS-600, the height can be adjusted 226, 251, 276, 326, 351, 376 (9, 10, 10 7/8, 12 7/8, 13 7/8, 14 7/8)							

Method of calculation (unit: mm)

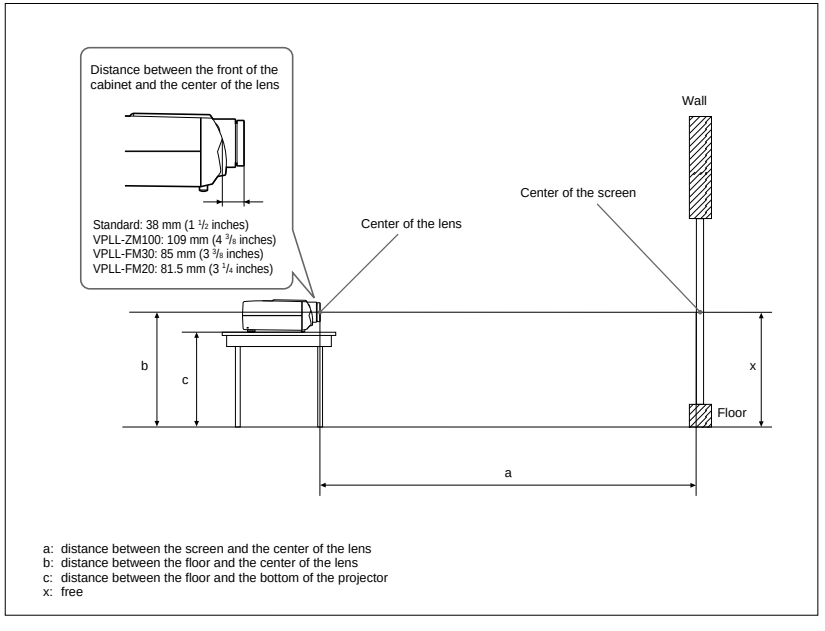
SS: Screen size diagonal (inches)
a = 37.313 × SS/1.26 – 60
x = b + SS/1.26 × 9.5

XGA/SXGA signal input
a = 37.313 × SS/1.29 – 60
x = b + SS/1.29 × 9.5

Macintosh 16-inch mode signal (horizontal 832 × vertical 624)/HDTV input
Refer to the table of the VPL-X600U/E/M.

Installation Diagram

Floor Installation (Rear Projection: Optical Axis Angle 0 Degree)



a: distance between the screen and the center of the lens
b: distance between the floor and the center of the lens
c: distance between the floor and the bottom of the projector
x: free

Note

If the projector has been set at the factory and if you project a picture from the rear, the picture will be upside down. If you use a mirror, the picture may be reversed. In these cases, change the INSTALLATION in the SET SETTING menu.

For details, refer to the INSTALLATION in the Operating Instructions for the VPL-X600U/E/M or the VPL-S600U/E/M.

When using the Standard lens

For the VPL-X600U/E/M

Unit: mm (inches)

Screen size (inches)		40	60	80	100	120	150	180	200	250	300
a	Minimum	1490 (58 3/4)	2270 (89 3/8)	3060 (120 1/2)	3850 (151 5/8)	4630 (182 3/8)	5810 (228 3/4)	6990 (275 1/4)	7780 (306 3/8)	9740 (383 1/2)	11710 (461 1/8)
	Maximum	1890 (74 1/2)	2870 (113)	3860 (152)	4840 (190 5/8)	5830 (229 5/8)	7310 (287 7/8)	8780 (345 3/4)	9770 (384 3/4)	12230 (481 1/2)	14700 (578 3/4)
b		x (x)									
c		x–74 (x–3)									

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a min = (SS × 50.249/1.31 – 84) × 1.025
a max = (SS × 66.195/1.31 – 87) × 0.975
b = x
c = x – 74

For the VPL-S600U/E/M

Unit: mm (inches)

Screen size (inches)		40	60	80	100	120	150	180	200	250	300
a	Minimum	1550 (64 1/8)	2370 (93 3/8)	3180 (125 1/4)	4000 (157 1/2)	4820 (189 7/8)	6050 (238 1/4)	7270 (286 1/4)	8090 (318 5/8)	10130 (398 7/2)	12180 (479 5/8)
	Maximum	1960 (77 1/4)	2990 (117 3/4)	4010 (157 7/8)	5040 (198 1/2)	6060 (238 5/8)	7600 (299 1/4)	9140 (359 7/8)	10160 (400)	12720 (500 7/8)	15280 (601 5/8)
b		x (x)									
c		x–74 (x–3)									

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a min = (SS × 50.249/1.26 – 84) × 1.025
a max = (SS × 66.195/1.26 – 87) × 0.975
b = x
c = x – 74

XGA/SXGA signal input
a min = (SS × 50.249/1.29 – 84) × 1.025
a max = (SS × 66.195/1.29 – 87) × 0.975
b = x
c = x – 74

Macintosh 16-inch mode signal (horizontal 832 × vertical 624)/HDTV input
Refer to the table of the VPL-X600U/E/M.

Installation Diagram

When using the VPLL-ZM100 2 times Zoom long focus lens

For the VPL-X600U/E/M

Unit: mm (inches)

Screen size (inches)		80	100	120	150	180	200	250	300
a	Minimum	4370 (172 1/8)	5500 (216 1/8)	6630 (261 1/8)	8330 (328)	10020 (394 1/2)	11150 (439)	13980 (550 1/2)	16810 (661 7/8)
	Maximum	8340 (328 3/8)	10430 (410 3/4)	12520 (493)	15650 (616 1/4)	18790 (739 7/8)	20880 (822 1/8)	26100 (1027 5/8)	31320 (1233 1/8)
b		x (x)							
c		x–74 (x–3)							

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a min = (SS × 72.290/1.31 – 155) × 1.025
a max = (SS × 140.374/1.31 – 20) × 0.975
b = x
c = x – 74

For the VPL-S600U/E/M

Unit: mm (inches)

Screen size (inches)		80	100	120	150	180	200	250	300
a	Minimum	4550 (179 1/4)	5720 (225 1/4)	6900 (271 3/4)	8660 (341)	10430 (410 3/4)	11600 (456 3/4)	14540 (572 1/2)	17840 (688 1/4)
	Maximum	8670 (341 3/8)	10840 (426 7/8)	13020 (512 5/8)	16270 (640 5/8)	19530 (769)	21710 (854 3/4)	27140 (1068 5/8)	32570 (1282 3/8)
b		x (x)							
c		x–74 (x–3)							

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a min = (SS × 72.290/1.26 – 155) × 1.025
a max = (SS × 140.374/1.26 – 20) × 0.975
b = x
c = x – 74

XGA/SXGA signal input
a min = (SS × 72.290/1.29 – 155) × 1.025
a max = (SS × 140.374/1.29 – 20) × 0.975
b = x
c = x – 74

Macintosh 16-inch mode signal (horizontal 832 × vertical 624)/HDTV input
Refer to the table of the VPL-X600U/E/M.

When using the VPLL-FM30 Fixed short focus lens

For the VPL-X600U/E/M

Unit: mm (inches)

Screen size (inches)	40	60	80	100	120	150	180	200	250	290
a	1080 (42 3/8)	1650 (65)	2220 (87 1/2)	2790 (109 7/8)	3360 (132 3/8)	4210 (165 3/4)	5070 (199 5/8)	5640 (222 1/8)	7060 (278)	8200 (322 7/8)
b					x (x)					
c					x–74 (x–3)					

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a = 37.313 × SS/1.31 – 60
b = x
c = x – 74

For the VPL-S600U/E/M

Unit: mm (inches)

Screen size (inches)	40	60	80	100	120	150	180	200	250	270
a	1120 (44 1/8)	1720 (67 3/4)	2310 (91)	2900 (114 1/4)	3490 (137 1/2)	4380 (172 1/2)	5270 (207 1/2)	5860 (230 3/4)	7340 (289)	7940 (312 5/8)
b					x (x)					
c					x–74 (x–3)					

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a = 37.313 × SS/1.26 – 60
b = x
c = x – 74

XGA/SXGA signal input
a = 37.313 × SS/1.29 – 60
b = x
c = x – 74

Macintosh 16-inch mode signal (horizontal 832 × vertical 624)/HDTV input
Refer to the table of the VPL-X600U/E/M.

Installation Diagram

When using the VPLL-FM20 Fixed short focus lens

For the VPL-X600U/E/M

Unit: mm (inches)

Screen size (inches)	50	60	80	100	120	150	180	200
a	860 (33 7/8)	1050 (41 3/8)	1420 (56)	1790 (70 1/2)	2160 (85 1/8)	2720 (107 1/8)	3270 (128 3/4)	3640 (143 3/8)
b					x (x)			
c					x–74 (x–3 3/8)			

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a = 24.275 × SS/1.31 – 64
b = x
c = x – 74

For the VPL-S600U/E/M

Unit: mm (inches)

Screen size (inches)	50	60	80	100	120	150	180	190
a	900 (35 1/2)	1090 (43)	1480 (58 3/8)	1860 (73 1/4)	2250 (88 5/8)	2830 (111 1/2)	3400 (133 7/8)	3600 (141 3/4)
b					x (x)			
c					x–74 (x–3)			

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a = 24.275 × SS/1.26 – 64
b = x
c = x – 74

XGA/SXGA signal input
a = 24.275 × SS/1.29 – 64
b = x
c = x – 74

Macintosh 16-inch mode signal (horizontal 832 × vertical 624)/HDTV input
Refer to the table of the VPL-X600U/E/M.

SONY

3-862-502-**11** (1)

Interface Board

Operating Instructions	**Page 2**
Mode d’emploi	**Page 6**
Bedienungsanleitung	**Seite 10**
Manual de instrucciones	**Página 14**
Istruzioni per l’uso	**Pagina 18**

IFB-X600E

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English

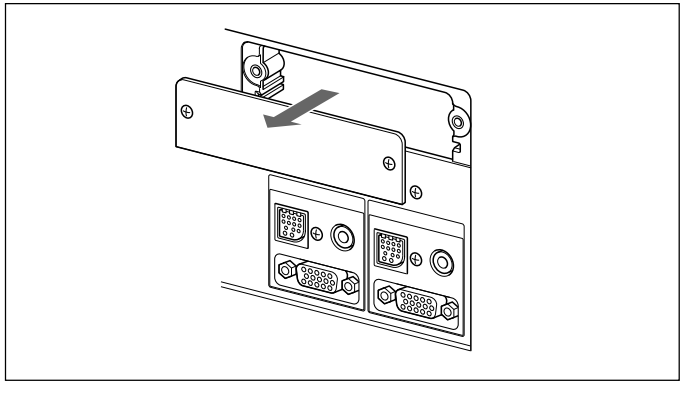
The IFB-X600E interface board is designed to be mounted on Sony VPL-X600E/S600E LCD data projector so that composite video or S video (Y/C) signals and audio signals from video equipment can be input.

Mounting the IFB-X600E

Note

Before installing the board, make sure the following have been done:
- Turn off the power of the projector.
- Disconnect the projector power cable from the wall outlet.

1 Remove the blind plate on the rear of the projector by loosening the two screws with the supplied Philips screwdriver.

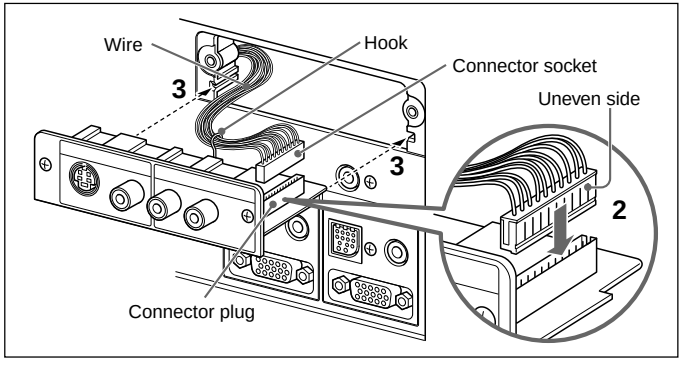


2 Pull out the connector socket from the projector. Insert the connector socket (set the uneven side on the right) into the interface board connector plug. Gather the wires together and place them in the hook of the interface board.

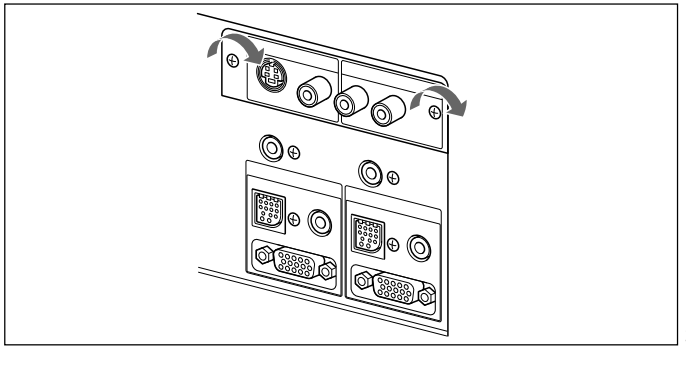
3 Insert the interface board by aligning it with the projector guides.

Caution

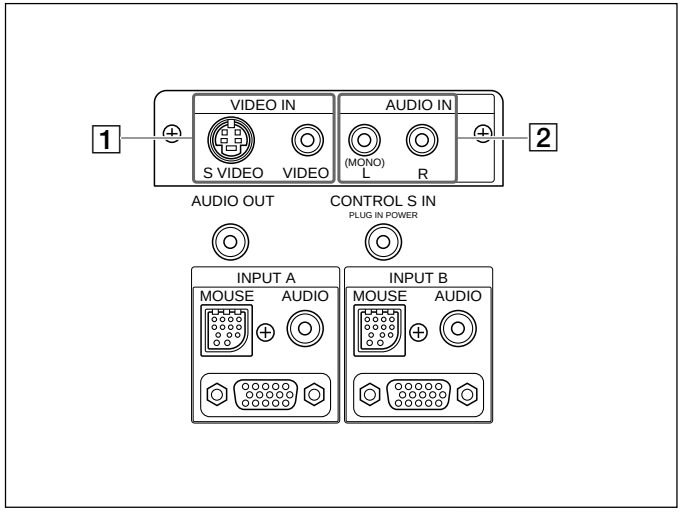
Make sure that the wire is not caught between the opening of the projector and the board.



4 Tighten the two interface board screws.



Location and Function of Parts



1 **VIDEO IN jacks**

S VIDEO (mini DIN 4-pin): Connects to the S video output (Y/C video output) of a video equipment.

VIDEO (phono type): Connects to the composite video output of video equipment.

Note

If you connect video equipment to both the S VIDEO and VIDEO jacks, the signal from the S VIDEO jack is selected. When projecting the picture via the VIDEO jack, be sure not to connect a cable to the S VIDEO jack.

2 **AUDIO IN L (MONO)/R jacks (phono type):**

Connect to the audio output of equipment. For stereo equipment, use both the L and R jacks; for monaural equipment, use the L (MONO) jack only.

Specifications

VIDEO IN jacks

S VIDEO (4-pin mini-DIN type):

Y (luminance) signal input: 1 Vp-p ± 2 dB, sync negative, 75 ohms terminated

C (chrominance) signal input: burst 0.286 Vp-p ± 2 dB (NTSC), burst 0.3 Vp-p ± 2 dB (PAL), 75 ohms terminated

VIDEO (phono type):

Composite video signal input, 1 Vp-p ± 2 dB, sync negative, 75 ohms terminated

AUDIO IN jacks

L (MONO) / R (phono type):

500 mVrms, impedance more than 47 kilohms

Supplied accessories

Audio/Video cable (1)
Philips screwdriver (1)

Design and specifications are subject to change without notice.

SONY

3-862-500-**01**(1)

Projector Suspension Support

Installation manual
Manuel d'installation
Installationshandbuch
Manual de instalación
Manuale d'installazione

PSS-600

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English

Maximum load: 10 kg (22 lb 1 oz)

The PSS-600 suspension support is designed to be used with the Sony VPL-X600U/E/M or VPL-S600U/E/M LCD data projector.

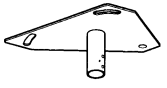
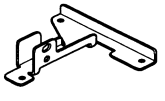
Caution
- For installation, consult with qualified Sony personnel.
- The ceiling should be capable of supporting a weight of at least 60 kg (132 lb 4 oz); if not, the ceiling must be reinforced.
- When you attach the bracket directly to the ceiling, use commercially available M10 bolts with nuts and washers, depending on the ceiling. Use of other bolts, nuts, and washers other than M10 may present a danger of falling.
- Be sure to assemble and attach the bracket in the order indicated; otherwise the projector may fall.

Table of contents

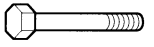
English

Parts List 5
Installation Diagram 8
Attaching to the ceiling 12
Installation Examples 18
Specifications 22

Parts List

(a)	**Upper ceiling mount bracket (1)** 
(b)	**Adjustment pipe (1)**
(c)	**Adjustment pipe (1)**
(d)	**Projector mount bracket (1)** 
(e)	**Bolt M5 x 14 (3)** Parts number 4-063-982-01

Parts List

(f)	**Bolt M8 x 50 (2)** Parts number 4-047-746-11 
(g)	**Screw M4 x 6 (6)** Parts number 4-047-765-11
(h)	**Washer M5 (3)** Parts number 4-063-983-01
(i)	**Washer M8 (4)** Parts number 4-047-748-11
(j)	**Spring washer M5 (3)** Parts numbe 4-063-984-01

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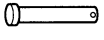
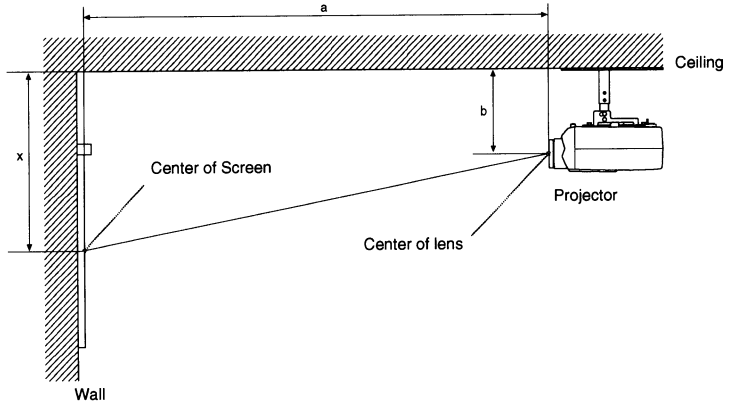
(k)	**Toothed lock washer M8 (4)**	Parts number 4-047-743-11
(l)	**Nut M8 (2)**	Parts number 4-047-742-11
(m)	**6 mm pin (2)**	Parts number 4-047-744-11 
(n)	**Snap pin (2)**	Parts number 4-047-903-11

Installation Diagram

For details of screen size and installation measurement for projection, refer to the following manuals:

- Operating Instructions
- Installation Manual for Dealers
- Installation Manual of the projection lens (when using the optional lens)

Side view



a: Distance between the screen and the center of lens

b: Distance between the ceiling and the center of lens. For details, see page 11.

x: Distance between the ceiling and the center of screen

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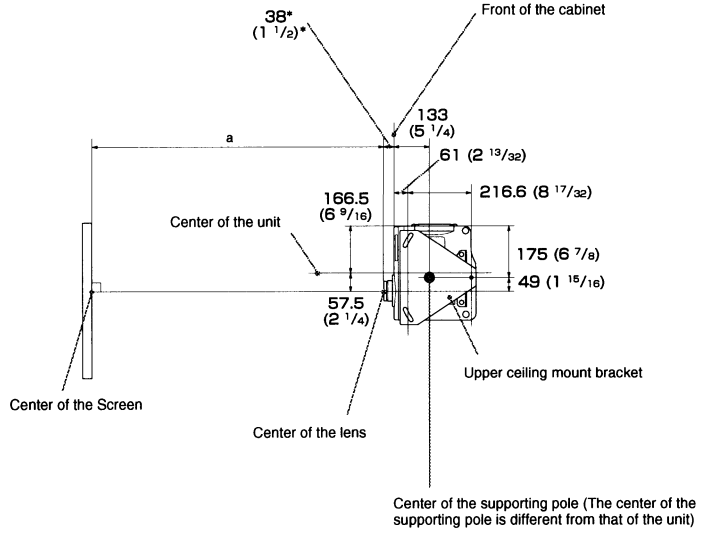
Installation Diagram

Top view

Align the center of the lens with the center of the screen.



Units : mm (inches)

* When using the standard lens equipped with VPL-X600U/E/M / S600U/E/M

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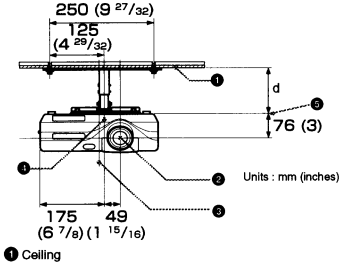
Front view

The lens is offset 49 mm (1 15/16 inches) to the right from the center of the supporting pole. When mounting, take care to align the center of the lens with the center of the screen; not the center of the supporting pole.



d: Distance between the ceiling and the surface of the mounting bracket
Using adjustment pipe (b) : 150/175/200 mm (6/7/7 7/8 inches)
Using adjustment pipe (c) : 250/275/300 mm (9 7/8 /10 7/8 /11 7/8 inches)

❶ Ceiling

❷ Center of the lens

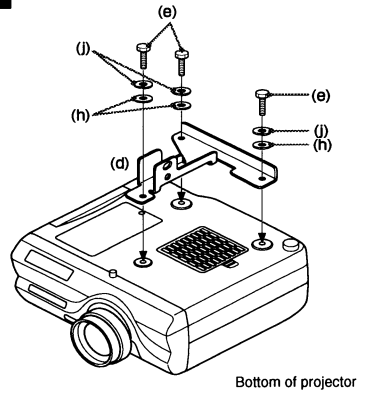
❸ Center of the unit

❹ Center of the supporting pole

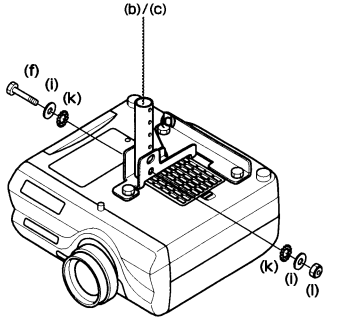
❺ The bottom surface of the mounting bracket

Attaching to the ceiling

1



2



English

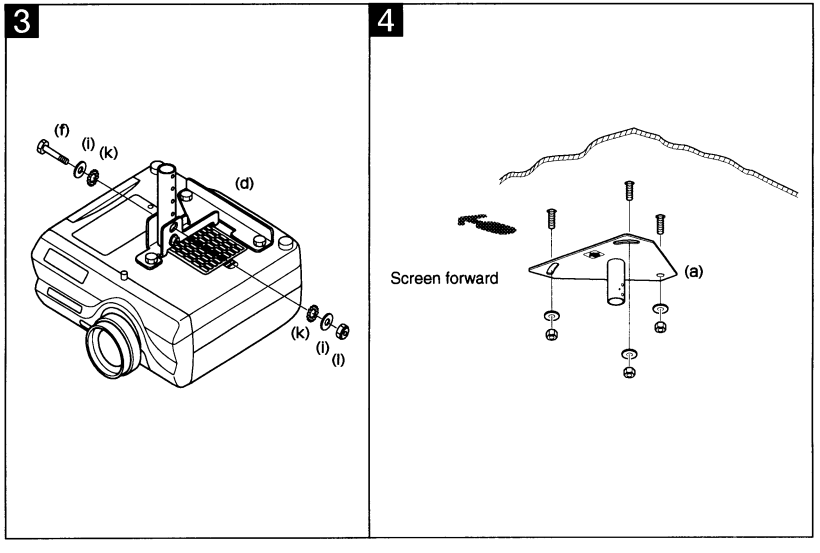
1 Turn the projector upside down and attach the projector mount bracket (d) using three bolts M5 x 14 (e), three washers M5 (h) and three spring washers M5 (j).

Notes

- When attaching the bracket, be careful not to overtighten the bolts.
- Before attaching the projector mount bracket, place a protective sheet (cloth) beneath the projector.

2 Attach adjustment pipe (b) or (c) to projector mount bracket (d) using a bolt M8 x 50 (f), two washers M8 (i), two thoothed lock washers M8 (k) and a nut M8 (l).
Adjustable height using the pipe (b) is 150/175/200 mm (6/7/7 7/8 inches).
Adjustable height using the pipe (c) is 250/275/300 mm (9 7/8 /10 7/8 /11 7/8 inches).

Attaching to the ceiling

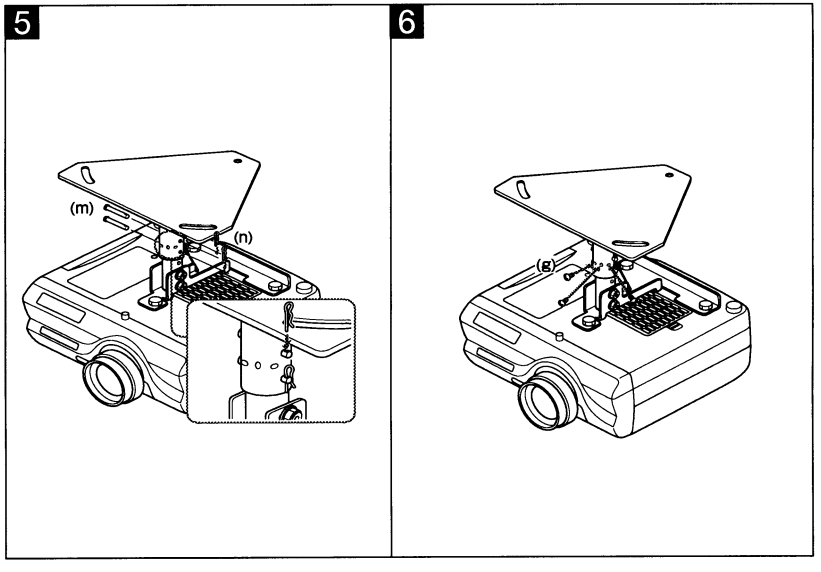


English

3 Attach the adjustment pipe to the projector mount bracket (d) using a bolt M8 x 50 (f), two toothed lock washers M8 (k), two washers M8 (i) and a nut M8 (l).
Attach the pipes so that the projector becomes level. You may tilt the projector slightly, but this will make the projected picture trapezoidal.

4 Attach the upper ceiling mount bracket (a) to the ceiling.
Use M 10 bolts, nuts and washers (not supplied).

Attaching to the ceiling



English

5 Insert the adjustment pipe into the upper ceiling mount bracket (a). Attach the pipe with the two 6 mm pins (m) and the two snap pins (n).
Pipe (b) can be adjusted to a height of 150/175/200 mm (6/7/7 7/8 inches); pipe (c) can be adjusted to a length of between 250/275/300 mm (9 7/8 /10 7/8 /11 7/8 inches).

6 Secure the ceiling mount bracket (a) and the adjustment pipe you attached in step 5.
Use six M4 × 6 bolts (g).
Then, tighten the bolts you attached in step 3 to secure the adjustment pipe.

Installation Examples

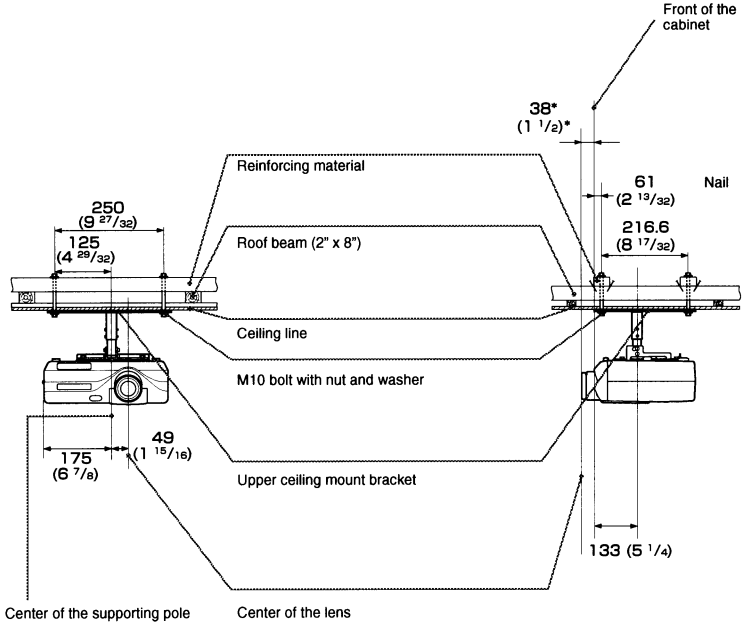
The following illustrations show the projector suspension support attached to with the ceiling. Installation is different depending on the material of ceiling.

Caution

Before installation, check that the maximum ceiling loading is in excess of 60 kg (132 lb 4 oz) .

For wooden ceiling

For-one-story house or uppermost floor

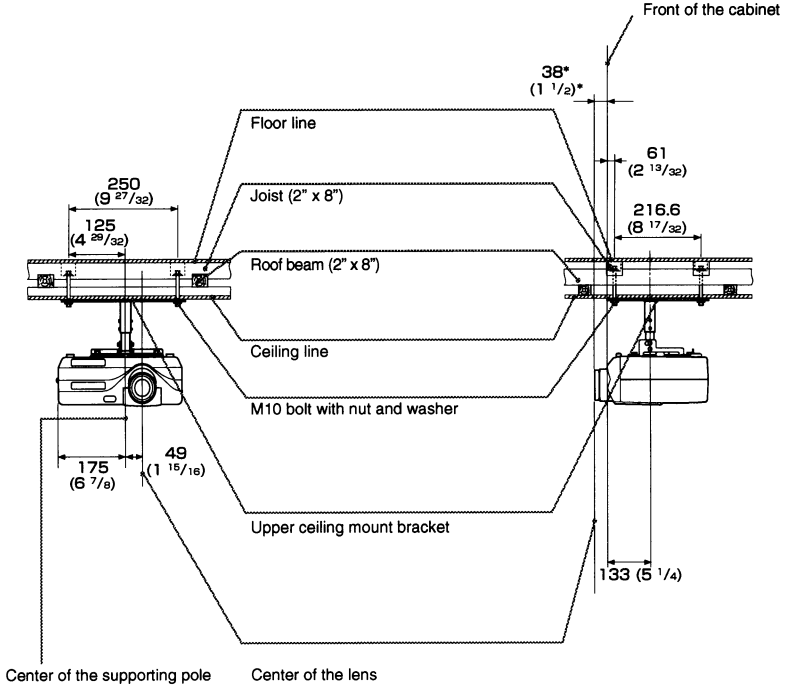


* When using the standard lens equipped with VPL-X600U/E/M / S600U/E/M

Units : mm (inches)

Installation Examples

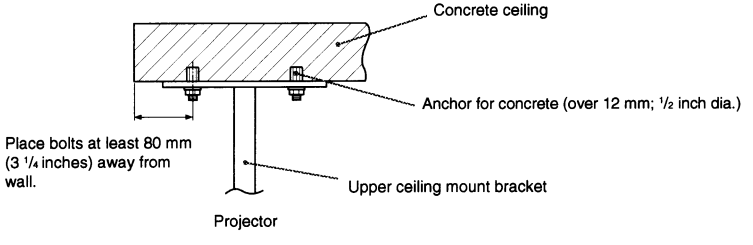
For other floors



* When using the standard lens equipped with VPL-X600U/E/M / S600U/E/M

Units : mm (inches)

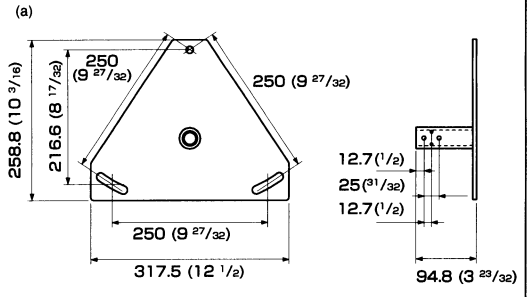
For concrete ceiling


Concrete ceiling
Anchor for concrete (over 12 mm; 1/2 inch dia.)
Place bolts at least 80 mm
(3 1/4 inches) away from
wall.
Upper ceiling mount bracket
Projector

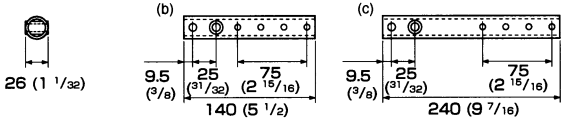
Specifications

Dimensions

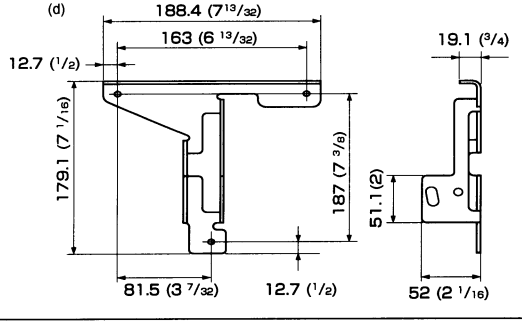
Upper ceiling mount bracket



Adjustment pipes



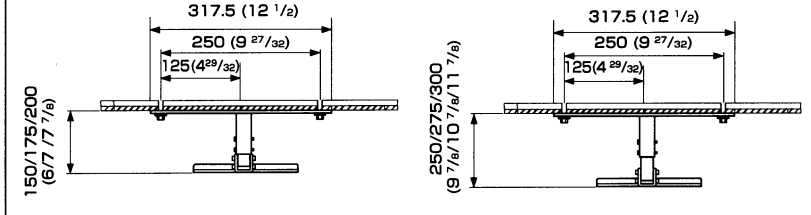
Projector mount bracket



Units : mm (inches)

Dimensions of the assembled bracket

Front view



Units : mm (inches)

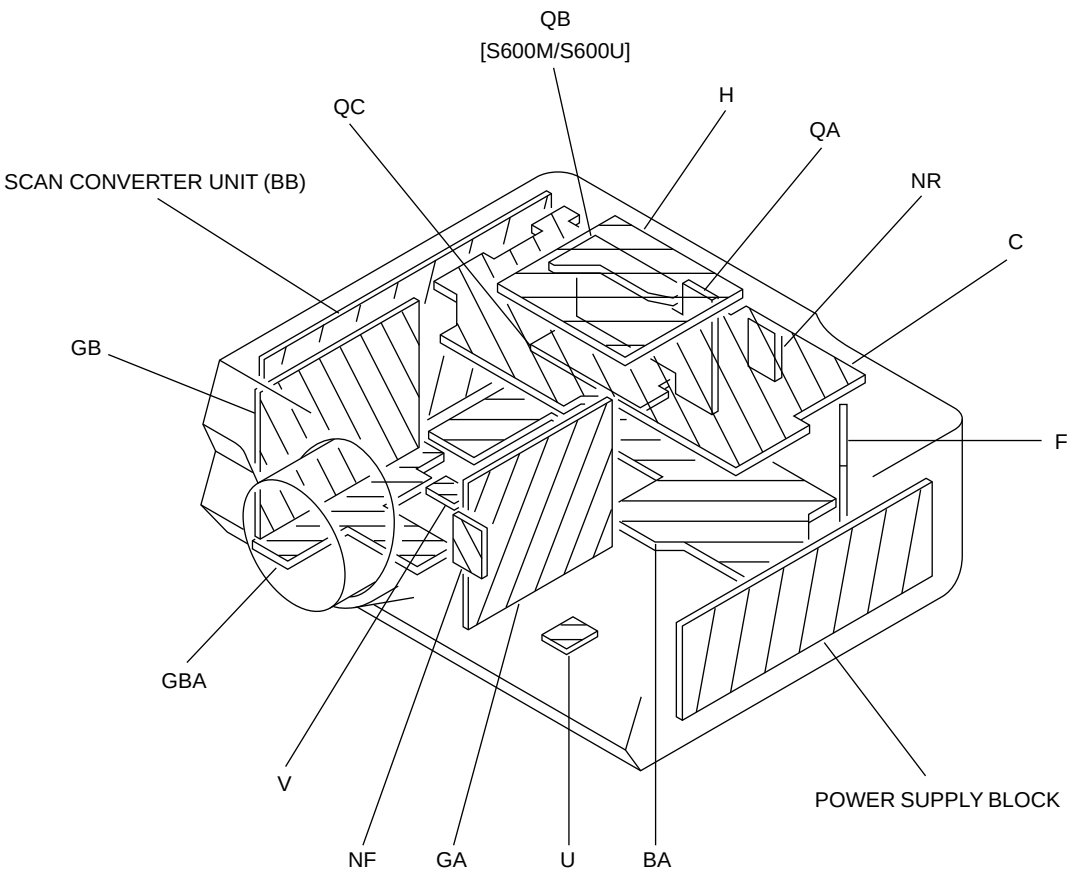
Mass Approx. 2.7 kg (5 lb 15 oz)

Loading Maximum loading :10 kg (22 lb 1 oz)

Design and specifications are subject to change without notice.

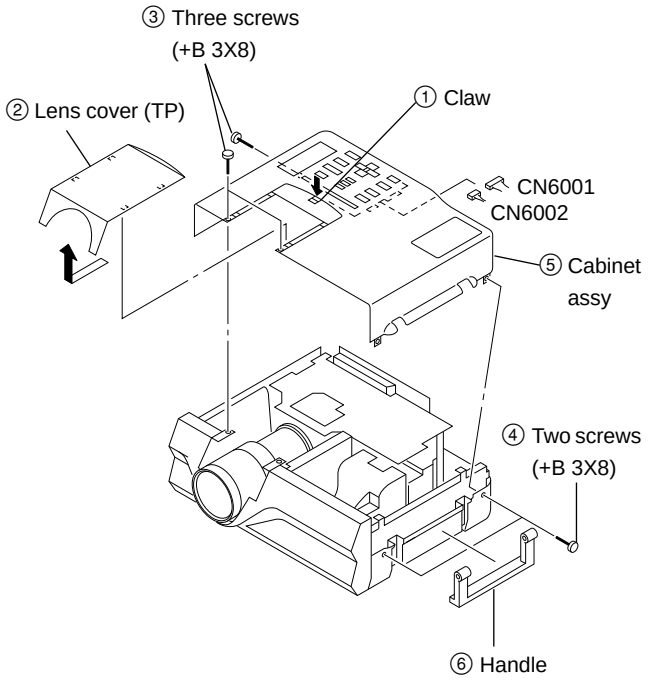
SECTION 2
SERVICE INFORMATIONS

2-1. CIRCUIT BOARDS LOCATION

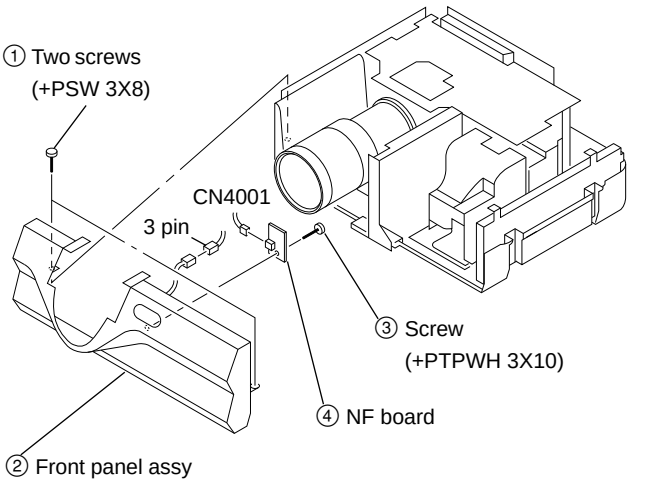


2-2. DISASSEMBLY

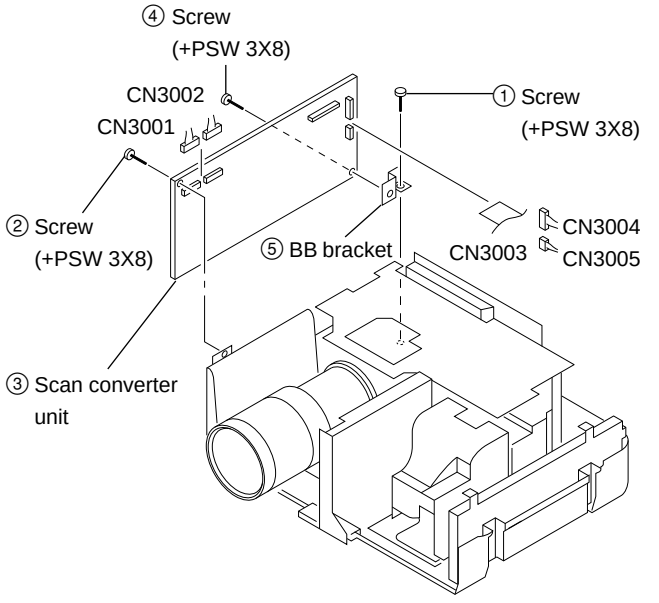
2-2-1. Cabinet Assy Removal



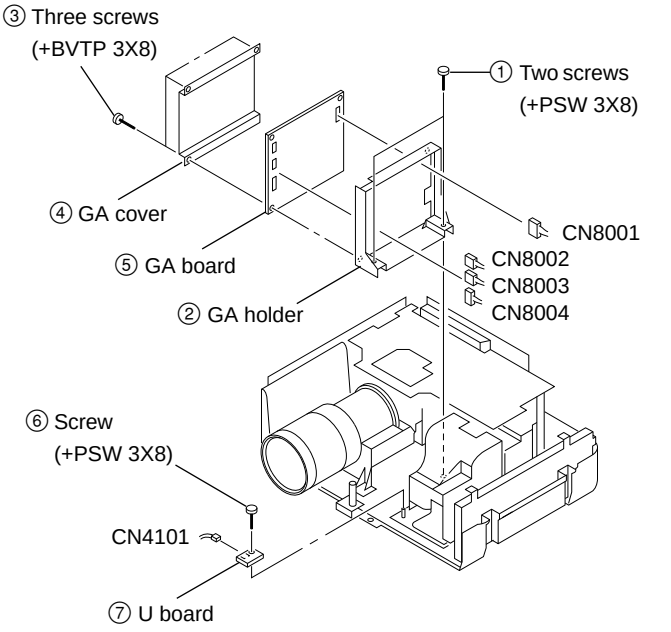
2-2-2. Front Panel Assy and NF Board Removal



2-2-3. Scan Converter Unit Removal

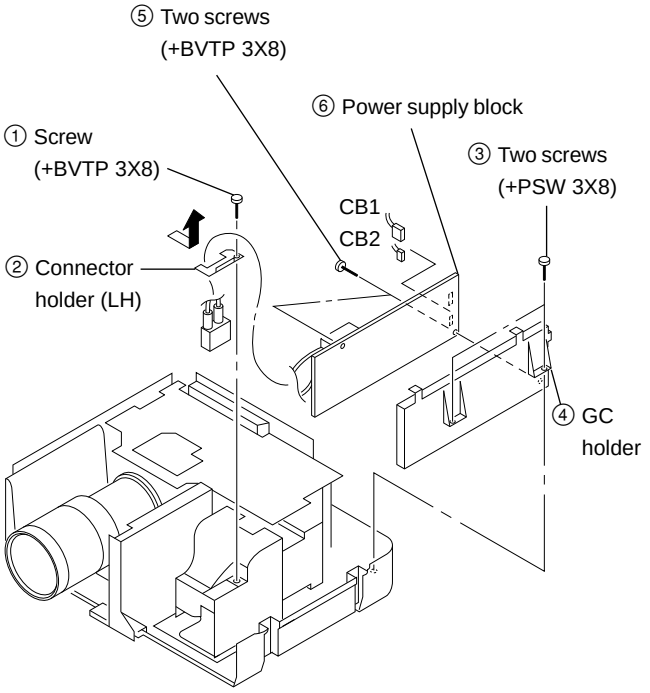


2-2-4. GA and U Boards Removal



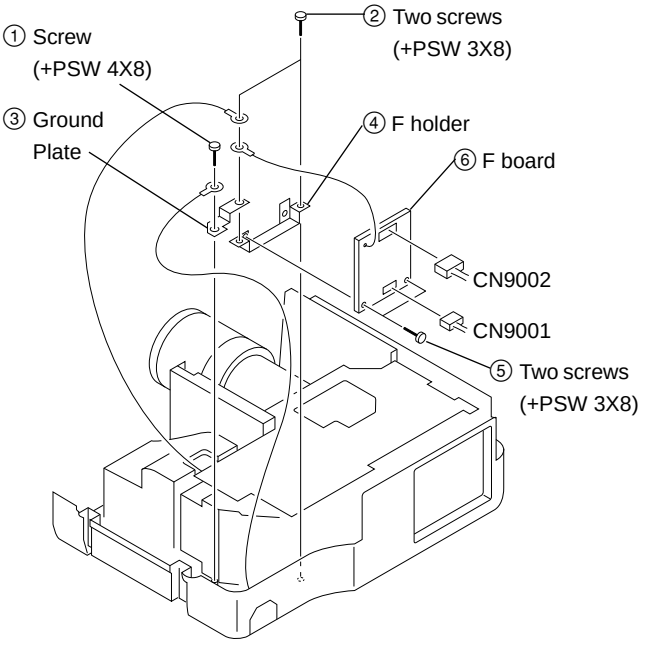
http://getMANUAL.com

2-2-5. Power Supply Block Removal

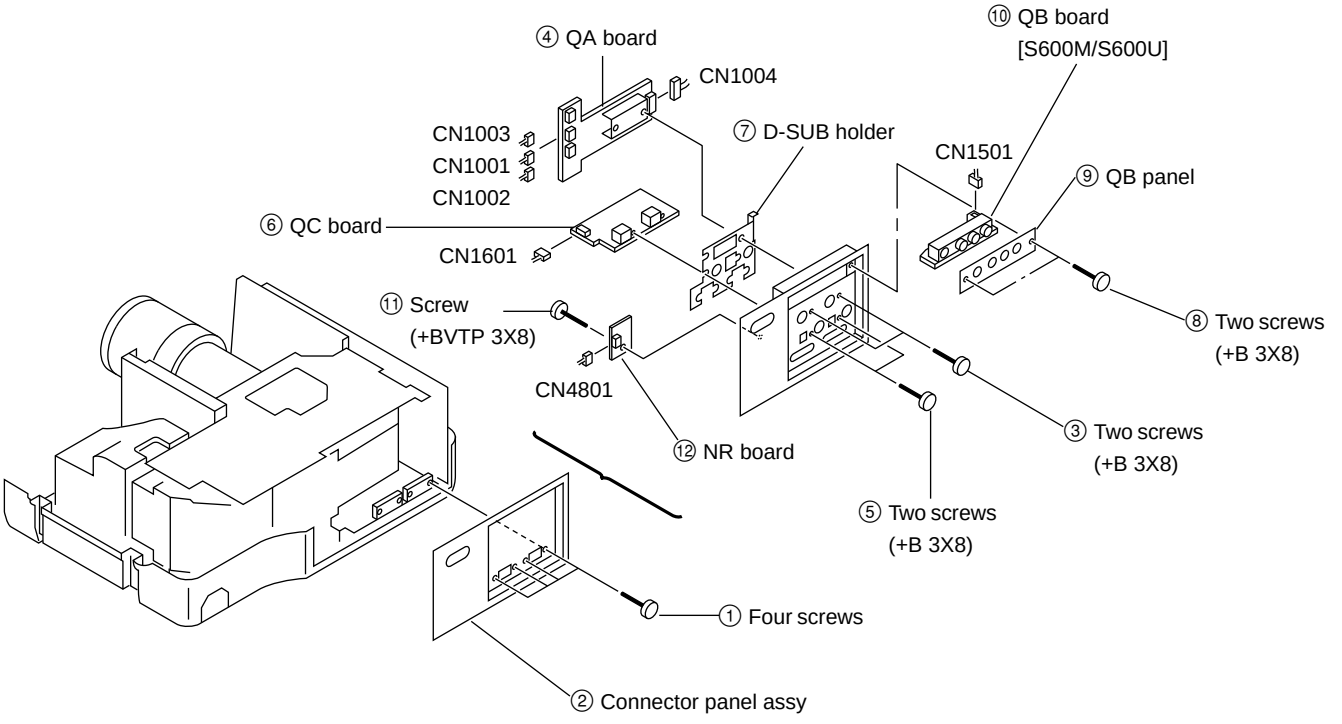


2-2-6. F Board Removal

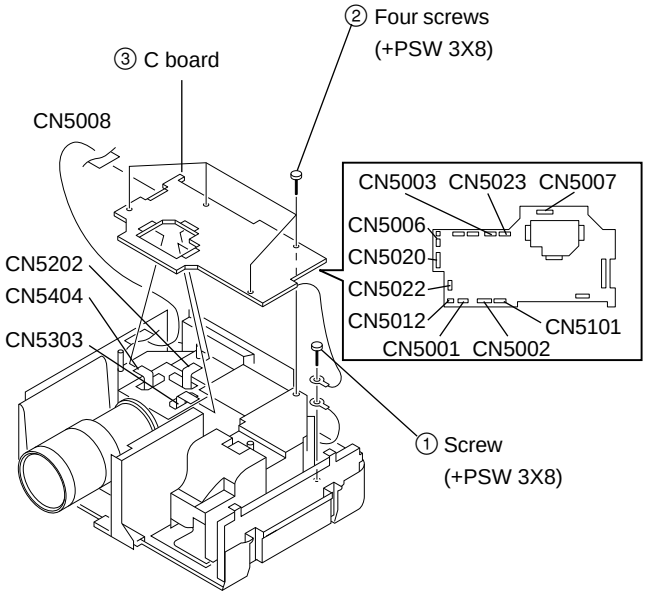
- Remove the power supply block. (Refer to 2-2-5.)



2-2-7. Connector Panel Assy, QA, QB, QC and NR Boards Removal

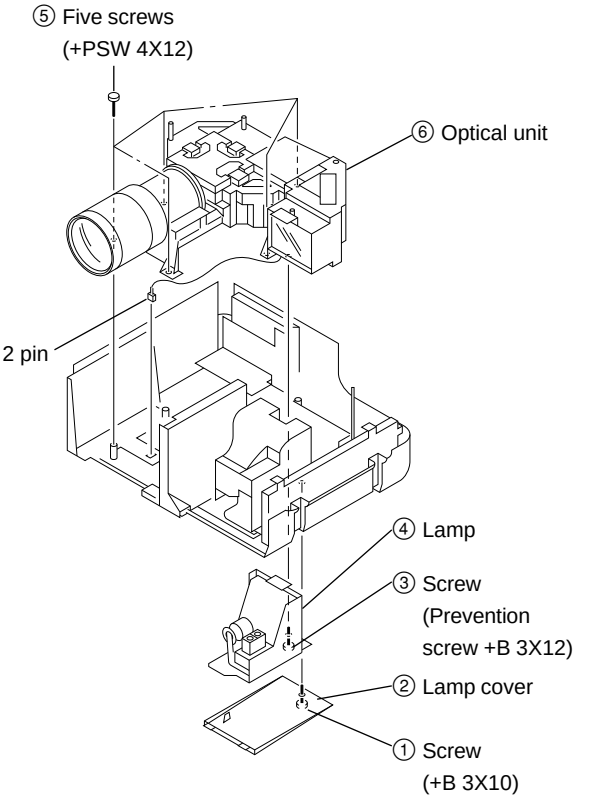


2-2-8. C Board Removal



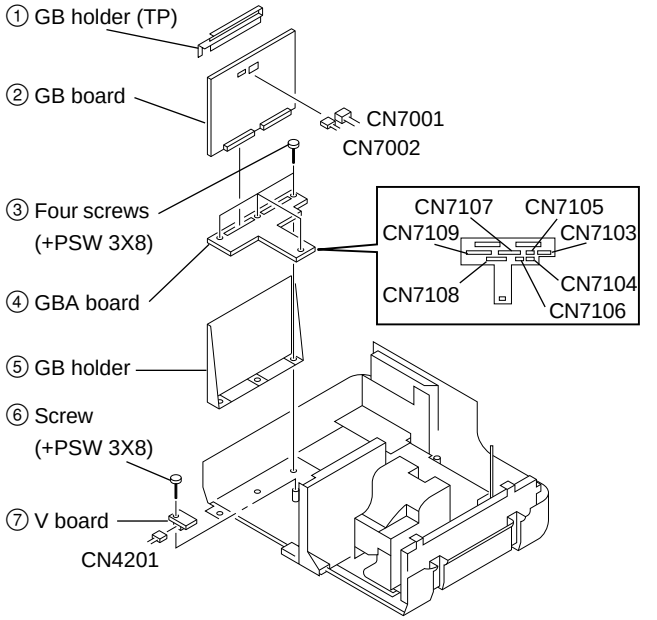
2-2-9. Optical Unit Removal

- Remove the C board (Refer to 2-2-8.)



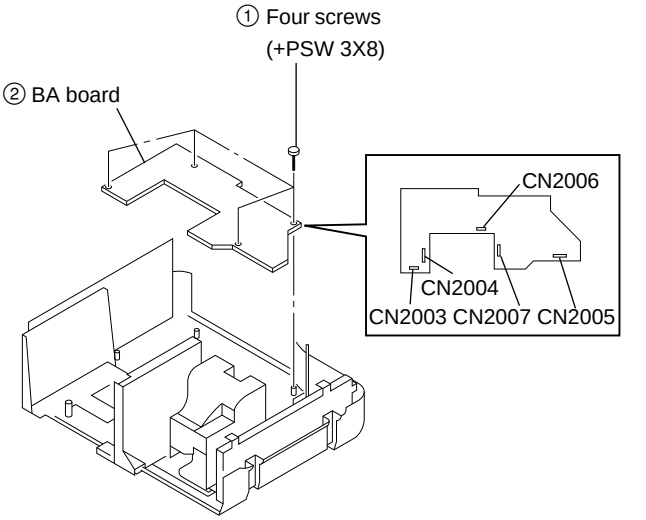
2-2-10. GB, GBA and V Boards Removal

- Remove the scan converter unit (Refer to 2-2-3.)
- Remove the C board (Refer to 2-2-8.)
- Remove the optical unit (Refer to 2-2-9.)

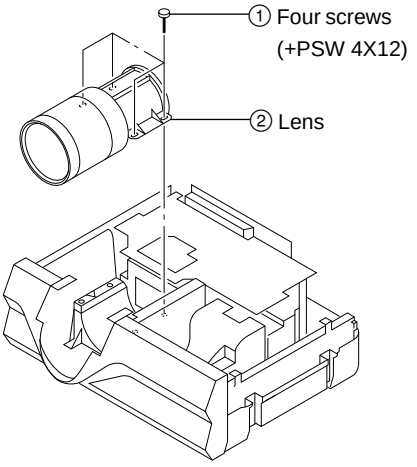


2-2-11. BA board Removal

- Remove the connector panel assy (Refer to 2-2-7.)
- Remove the C board (Refer to 2-2-8.)
- Remove the optical unit (Refer to 2-2-9.)

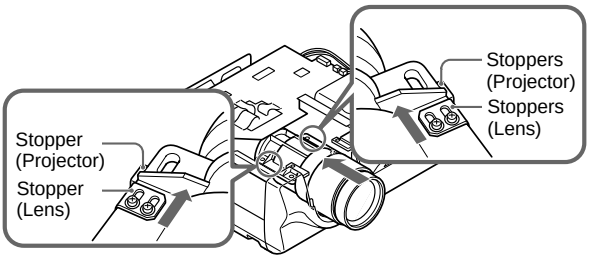


2-2-12. Lens Removal

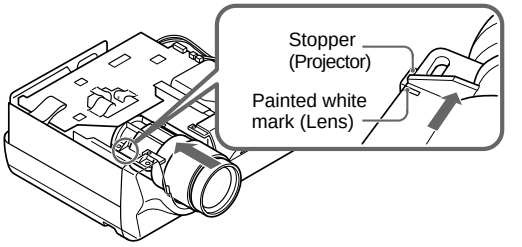


2-2-13. Lens Adjustment

• Refer to page 1-27.



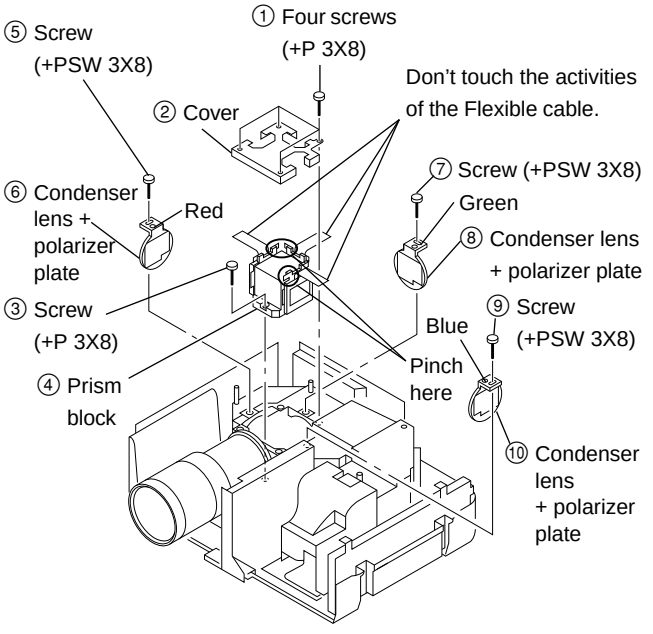
When the lens does not have a stopper
Align the painted white mark (▭) on the lens with the edge of the stopper in the projector.



2-2-14. Prism Block and Condenser Lens Removal

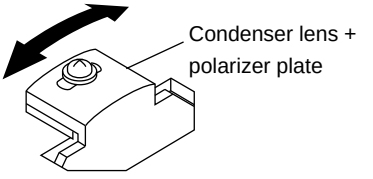
• Remove the C board (Refer to 2-2-8.)

Note : Don't touch prism glass and LCD panel, especially the activities of the Flexible cable.



2-2-15. Polarizer Plate Adjustment

Adjust to be darkened.



• 0% Flat Field Input
• CONT = 80, BRT = MIN

SECTION 3
SET-UP ADJUSTMENTS

Enter the FACTORY MODE in the following manner:

How to enter the FACTORY MODE:

1. Check that the STATUS in the MENU is ON.
2. Turn OFF the MENU.
3. Press the keys [ENTER] → [ENTER] → [LEFT] → [ENTER], in this order.
4. <Do you wish to enter into the FACTORY MODE?> appears.
5. Select YES.

3-1. VCOM ADJUSTMENT

1. Input the green single-color 1H inverted signal to the INPUT A.
2. Set both CONTRAST and BRIGHT to 50.
3. The G VCOM adjustment screen of the Device Adjust appears.
4. Select the point at which the flicker is minimum.
5. Input the red and blue single-color 1H inverted signal, respectively, and adjust R VCOM and B VCOM so that the flicker will be a minimum.
6. Save the adjusted value.
7. When the flicker is invisible, decrease CONTRAST.

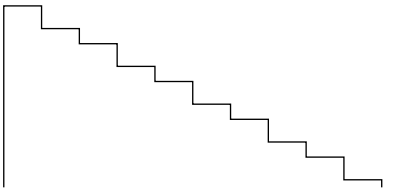
3-2. SIGNAL LEVEL ADJUSTMENT

γ MODE : GRAPHICS
INPUT A : 10 steps
VIDEO : 100% COLOR BAR, 100 IRE FLAT FIELD
Set CONTRAST to 80 and BRIGHT to 50 (RESET).
W/B : HIGH mode (In the case of VIDEO, change via MENU is necessary.)

3-2-1. RGB Level Adjustment

1. Adjust W/B R, G, and B GAIN, as well as W/B R, G, and B BIAS, so that the levels of TP5106, TP5105, and TP5104 will be within the specification.
2. Save the adjusted value.

RGB LEVEL spec.
All of TP5106, TP5105, and TP5104
0IRE2.00 ± 0.02 Vdc
100IRE 3.00 ± 0.02 Vdc

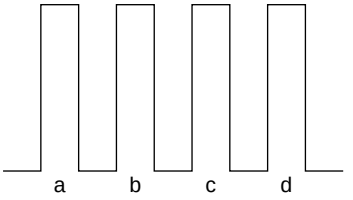


3-2-2. VIDEO Level Adjustment

1. Set the Contrast to 80.
2. Input NTSC FLAT FIELD 100 IRE to VIDEO.
3. Adjust the CONTRAST and BRIGHT of RGB MTRX so that the level of TP5105 will be within the specification, and save the adjusted data.
4. Input PAL FLAT FIELD 100 IRE to VIDEO.
5. Adjust the CONTRAST and BRIGHT of RGB MTRX so that the level of TP5105 will be within the specification.
6. Save the adjusted value.
7. Set INPUT A in Component.
8. Input Component FLAT FIELD 100 IRE to INPUT A.
9. Set the Contrast to 80.
10. Adjust the CONTRAST and BRIGHT of RGB MTRX so that the level of TP5105 will be within the specification.
11. Save the adjusted value.
    With respect to 15K Component, input Y = 0.7 Vped-100IRE R-Y/B-Y = 0.7 Vp-p for adjustment.
12. Return the INPUT A setting to RGB.
    VIDEO LEVEL spec.
    TP5104
    0IRE 2.00 ± 0.05 Vdc
    100IRE 2.90 ± 0.05 Vdc
    Do not change RGB MTRX VIDEO CONT and YUV CONT.

3-2-3. Adjustment of VIDEO SUB HUE and COLOR

1. The signal for adjustment is white 100IRE 100% color bar.
   Set "b = c" by means of CXA1839 SUB HUE so that the level of TP5104 will be within the specification.
   Set "a = d" by means of CXA1839 VIDEO COLOR or YUV COLOR.
   Adjust the tracking of the above two items.
2. Save the adjusted value.
   Adjust NTSC, PAL, and Component, respectively.
   Adjust PAL only by VIDEO COLOR.
   Adjust the Component only by YUV COLOR.



Specifications for VIDEO COLOR HUE adjustment:
TP5104: a = b ± 10%

3-3. γ · W/B ADJUSTMENT

A luminance meter and a chromaticity meter are necessary.
INPUT A: SVGA FLAT FIELD
VIDEO: FLAT FIELD

<Condition>

1. Conduct Pre Aging for more than 5 minutes for the Set.
2. The lens should be at the WIDE edge.
3. Turn off OSD when measuring the chromaticity.
   The input of RGB and that of VIDEO are common for W/B MEMORY, and there are HIGH and LOW modes.

3-3-1. γ Adjustment

1. Graphics Mode Adjustment

1. Set the γ MODE to Graphics to enter the HIGH MODE.
2. Input SVGA FLAT FIELD 100 IRE to INPUT A.
3. Set CONTRAST and BRIGHT to a maximum.
4. Measure the chromaticity (Xw and Yw) at that time.
5. Input green single-color SVGA FLAT FIELD 100 IRE.
6. Measure the brightness Ygmax at that time.
7. Set CONTRAST to 80 and BRIGHT to 50 (RESET).
8. Input SVGA green single-color FLAT FIELD 80 IRE to INPUT A, and adjust GAMMA G SBRT so that the brightness Y80 will be within the specification.
9. Input SVGA green single-color FLAT FIELD 40 IRE to INPUT A, and adjust GAMMA G GAIN so that the brightness Y40 will be within the specification.
10. Input SVGA green single-color FLAT FIELD 20 IRE to INPUT A, and adjust GAMMA G GM B1P so that the brightness Y20 will be within the specification.
11. Input SVGA green single-color FLAT FIELD 10 IRE to INPUT A, and adjust GAMMA G GM B2P so that the brightness Y10 will be within the specification.
    Brightness adjustment spec.
    Y80 = Ygmax × 0.640 ± 4%
    Y40 = Y80 × 0.218 ± 4%
    Y20 = Y80 × 0.0474 ± –3% to +7%
    Y10 = Y80 × 0.0103 ± +20% to +35%
    The brightness is the average of five measured values.
12. Input SVGA FLAT FIELD 80 IRE to INPUT A, and adjust GAMMA R SBRT and B SBRT so that the chromaticity at that time (White) will be within the specifications.
13. Input SVGA FLAT FIELD 40 IRE to INPUT A, and adjust GAMMA R GAIN and B GAIN so that the chromaticity at that time (White) will be within the specifications.
14. Adjust the tracking until both 80 IRE and 40 IRE will be within the specification.
15. Input SVGA FLAT FIELD 20 IRE to INPUT A, and adjust GAMMA R B1P, B B1P so that the chromaticity at that time (White) will be within the specifications.
16. Input SVGA FLAT FIELD 10 IRE to INPUT A, and adjust GAMMA R B2P, B B2P so that the chromaticity at that time (White) will be within the specifications.

<Specification>

80 IRE (Xw ± 0.005, Yw ± 0.005)
40 IRE (Xw ± 0.005, Yw ± 0.005)
20 IRE (Xw ± 0.005, Yw ± 0.005)
10 IRE (Xw ± 0.010, Yw ± 0.010)

17. Save the adjusted value.

2. Text Mode Adjustment

1. Set the γ MODE to the Text.
2. Process the value adjusted in "1. Graphics Mode Adjustment" in the following manner and copy the value.
3. Save the adjusted value.
   When the minimum value of RGB GAIN < 30
   Value adjusted in the Graphic Mode – Minimum value of RGB GAIN
   GAMMA SBRT:
   Value adjusted in the Graphics Mode – 3 (Red)
   Value adjusted in the Graphics Mode – 3 (Green)
   Value adjusted in the Graphics Mode – 3 (Blue)
   GAMMA GAIN:
   Value adjusted in the Graphics Mode – 30 (Red)
   Value adjusted in the Graphics Mode – 30 (Green)
   Value adjusted in the Graphics Mode – 30 (Blue)
   GAMMA B1P:
   Value adjusted in the Graphics Mode (All of R, G, and B)
   GAMMA B2P:
   Value adjusted in the Graphics Mode (All of R, G, and B)

3-3-2. W/B LOW MODE Adjustment

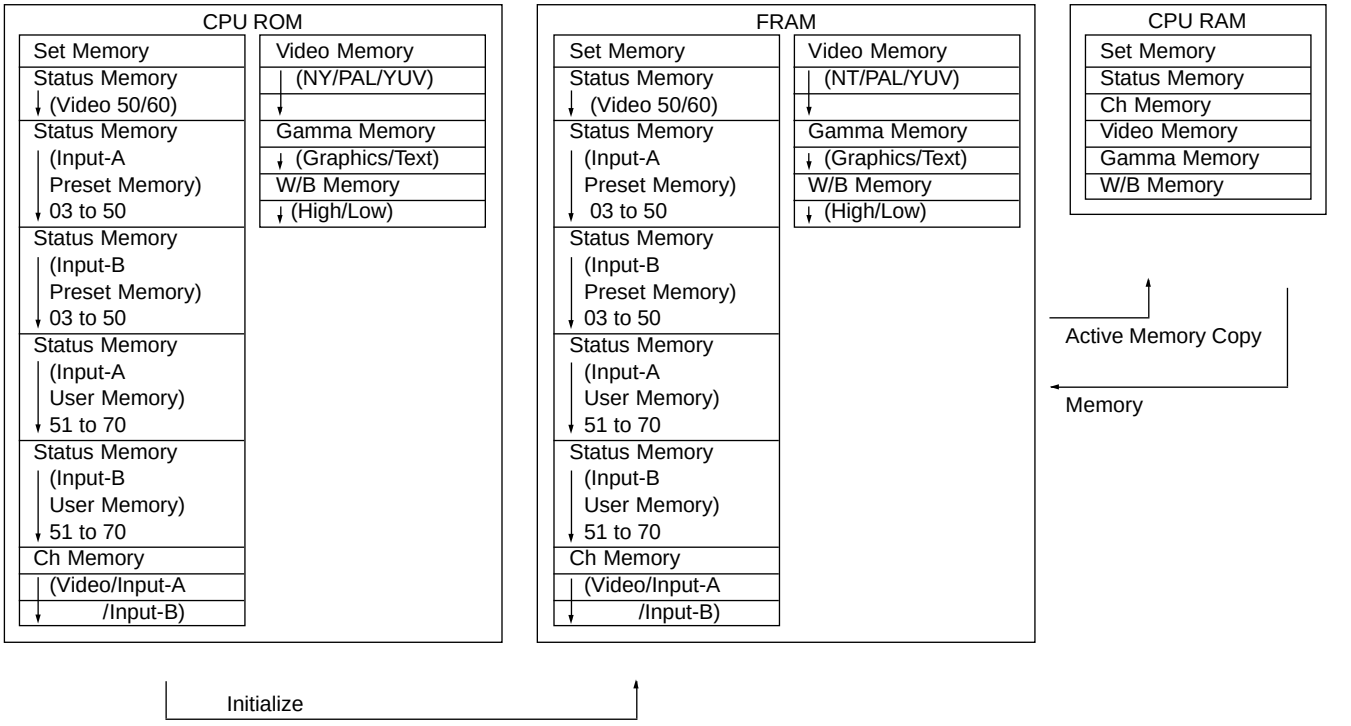
1. Enter the LOW MODE.
2. Process LOW as shown below and copy the adjusted value of HIGH.
3. Input 15K Component Flat Field 80IRE to INPUT A.
4. Adjust the chromaticity as shown below by means of G GAIN and B GAIN.
5. Input 15K Component Flat Field 30IRE to INPUT A.
6. Adjust the chromaticity as shown below by means of G BIAS and B BIAS.
7. Adjust tracking so that both 80IRE and 30IRE will be within the specified range.
   RGB MTRX R GAIN: Value adjusted in HIGH Mode + 10
   RGB MTRX G GAIN: Value adjusted in HIGH Mode
   RGB MTRX B GAIN: Value adjusted in HIGH Mode
   RGB MTRX R BIAS: Value adjusted in HIGH Mode
   RGB MTRX G BIAS: Value adjusted in HIGH Mode
   RGB MTRX B BIAS: Value adjusted in HIGH Mode
   LOW MODE chromaticity spec.: (x, y) = (0.283, 0.331) ± 0.005
8. Save the adjusted value.

3-4. DOT PHASE ADJUSTMENT

1. Check that the three set values are as follows via the TG adjustment screen of the Device Adjust.
   TG/GAMMA SH1 11
   TG/GAMMA SH2 40
   TG/HCLK 4

3-5. X/S600 SERIES MEMORY STRUCTURE

ROM in CPU: 128kbyte Flash Memory
RAM in CPU: 4kbyte
External NVM Memory: 2kbyte FRAM Memory × 2



* CPU ROM Memory & FRAM Area: All memory items and contents exist.
* CPU RAM: The contents of one active memory from each block exist.

The memory structure of 600 Series basically follows 500 Series and is divided into the following memory blocks:

1. Set memory
2. Status memory
3. Channel memory
4. Video memory
5. Gamma memory
6. W/B memory

The simplified explanation of the data flow is as follows. When the power is turned on for the first time, all data in the ROM are written into the FRAM, and status memory, as well as other memory data necessary for the present image, is selected from each memory block and developed in the internal RAM.

When adjustment is made, the writing of adjusted data into the FRAM is conducted automatically or triggered by memory operation.

Unlike 500 Series, the factory memory, service memory, and user memory are unified into one, and all the adjusted data returns to ones on the ROM after resetting in the user and service modes.

Therefore, data that were adjusted at the plant will be lost when the user makes adjustment and conducts memory operation. (The channel memory and status memory are automatic memories, and the value adjusted at the plant will be lost when adjustment is made. However, there will be no problem because the ROM data are the fundamentals.)

Adjustment data and initial value 1

Menu Title	Item Name	Memory Name					Remarks
		CH MEMORY			W/B MEMORY		
		VIDEO	INPUT-A	INPUT-B	HIGH	LOW	
PICTURE CTRL	CONTRAST	80	80	80			
	BRIGHT	50	50	50			
	COLOR	50	50	50			
	HUE	50	50	50			
	SHARP	50	50	50			
	D. PICTURE	OFF	—	—			
	GAMMA MODE	—	GRAPHICS	GRAPHICS			
	COLOR TEMP	LOW	HIGH	HIGH			
	COLOR SYS	AUTO	—	—			
INPUT SETTING	ASPECT	4 : 3	—	—			
	SCAN CONV	—	ON	ON			
SET SETTING	STATUS	ON					
	INPUT-A	RGB					
	INPUT-B	RGB					
	LANGUAGE	ENGLISH					
	INSTALLATION	FLOOR-FRONT					
	SPEAKER	ON					
	POWER SAVING	OFF					
	SIRCS RECEIVER	FRONT&REAR					
W/B ADJUST	GAIN R				90	90	
	G				90	90	
	B				90	90	
	BIAS R				200	200	
	G				200	200	
	B				200	200	

* Each input signal (PRESET MEMORY No.) has its own initial value with respect to “DOT PHASE•SIZE H•SHIFTH/V” on the “INPUT SETTING” menu.

Adjustment data and initial value 2

Device Name	Item Name	Memory Name								Remarks
		SET MEMORY	SIGNAL MEMORY					GAMMA MEMORY		
			NTSC	PAL/SECAM	YUV	15kRGB	RGB	GRAPHICS	TEXT	
RGB MTRX	CONTRAST		40	41	44	—	—			
	BRIGHT		31	31	31	—	—			
	SUB HUE		11	7	7	—	—			
	R-Y/R		11	11	11	—	—			fixed value
	R-Y/B		15	13	13	—	—			fixed value
	G-Y/R		4	5	6	—	—			fixed value
	G-Y/B		4	5	5	—	—			fixed value
	VIDEO CON		10	10	7	—	—			fixed value
	VIDEO COL		5	6	7	—	—			
	YUV CON		7	7	4	—	—			fixed value
	YUV COL		7	7	7	—	—			
	SUB SHP		0	0	0	—	—			fixed value
	SHPFO		0	0	0	—	—			fixed value
	PRE OVER		3	0	0	—	—			fixed value
	NR LVL		0	0	0	—	—			fixed value
	DMIC PIC	2								fixed value
	CEC LVL		3	3	2	—	—			fixed value
C.DEC	Y DELAY									fixed value
D.COM	VENH									fixed value
	CBPF									fixed value
A.P.	LOUDNESS	0								fixed value
	BASS	2								fixed value
	BASS BOOST	0								fixed value
	TREBLE	0								fixed value
	TREBLE BOOST	0								fixed value
	FADER	10								fixed value
	FADER SEL									fixed value
P. DRV	G VCOM	153								
	R VCOM	121								
	B VCOM	159								
RGB AMP	SID LVL	80								fixed value
GAMMA	G-SBRT							36	33	
	R-SBRT							36	33	
	B-SBRT							40	37	
	G GAIN							40	10	
	R GAIN							44	14	
	B GAIN							41	11	
	G B2G							63	63	fixed value
	G B2P							53	53	
	G B1G							32	36	fixed value
	G B1P							35	35	
	G WHG							32	63	fixed value
	G WHP							31	31	fixed value
	R B2G							63	63	fixed value
	R B2P							53	53	
	R B1G							32	32	fixed value
	R B1P							34	34	
	R WHG							32	63	fixed value
	R WHP							31	31	fixed value
	B B2G							63	63	fixed value
	B B2P							51	51	
	B B1G							32	32	fixed value
	B B1P							36	36	
	B WHG							32	63	fixed value
	B WHP							31	31	fixed value
	GAMMA OFF	0								fixed value
TG	FRP	3								fixed value
	HCLK	4								fixed value
	HST	0								fixed value
	PLL									fixed value
	H SHIFT	230								fixed value
	V SHIFT	4								fixed value
	IV END									fixed value
	VIDEO DIV	0								fixed value
	GAMMA SH2							40	40	fixed value
	GAMMA SH1							11	11	fixed value

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SECTION 4
SEMICONDUCTORS

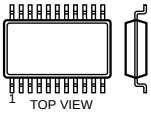
10-46547
Z86C0404PCU1

18pin DIP

10-75253
Z86C3012SSSSU2

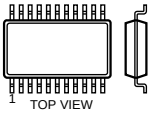
28pin DIP

74VHC240SJX
MB88346BPFV
TC74HC541AF
TEA2025D



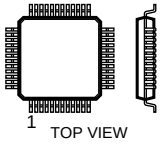
20pin SOP

BR24CF16F
LM358PS
MAX1626ESA
MM1111XFBE
MM1112XF
NJM2240M
TC7W00F
TC7W04FU
TC7W14FU
TC7W126FU
TC7W240FU
TL431BCDR2
UPC393G2



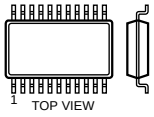
8pin SOP

CXA1839Q-T6
CXA1946AR



48ipn QFP

CXA1875AM
EL4332CS
MM1231XFBE
PC74HC123D-T
TDA4665T-T

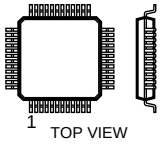


16pin SOP

CXA2016S

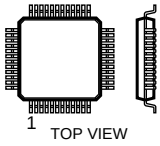
22pin DIP

CXA2111R



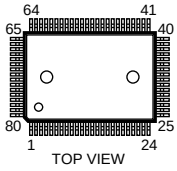
52pin QFP

CXA2112R

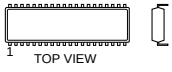


52pin QFP

CXD2024AQ
CXD2442Q

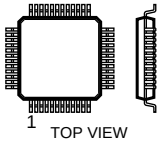


FA5331P



16pin DIP

HD64F3048F16

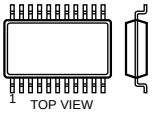


100pin QFP

M52337SP

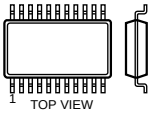
36pin DIP

M52755FP-TP



36pin SOP

MB90096PF

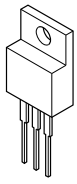


28pin SOP

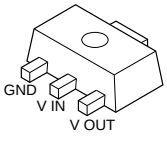
MM1170BFB
UCC2801N

8pin DIP

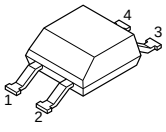
NJM7812FA
PQ05SZ1U
PQ05SZ5U
PQ12RF1
TA7812S
TA78M09F
TOP222Y-BB



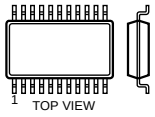
NJM79L05UA



PC123F2
PC123FY2

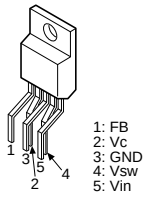


PC74HC02D-T
TC74HC07AF

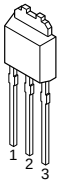


14pin SOP

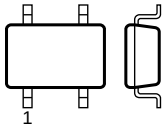
PQ20VZ5U



TA7812F

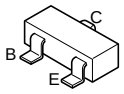


TC7S04FU
TC7W08FU

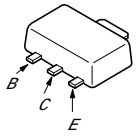


5pin CHIP

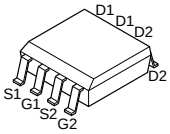
2SA1162-G
2SA1162-YG
2SC2712-YG
2SC3545-T43
DTA144EKA-T146
DTC114EKA
DTC144EKA-T146



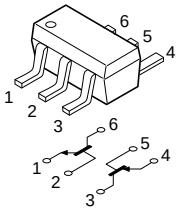
2SA1213Y
2SB798-DL



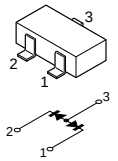
SI-9430DY-T1



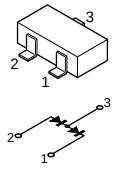
UN1B01FU



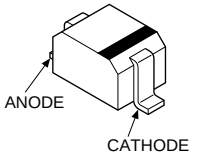
1S2836
DAP202K



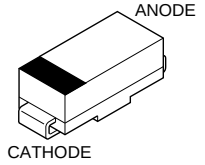
1SS226
MA157-TX



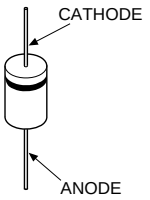
1SS355
DTZ5.6A
DTZ9.1
DTZ-TT11-5.6A
DTZ-TT11-9.1
RB501V-40TE-17
RD12SB3-T1
RD3.3SB2-T1
RD5.1SB-T1
RD5.1SB-T2
RD6.8SB-T1
RD9.1S-B2
RD9.1SB2-T1



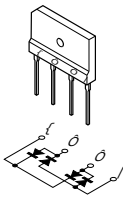
D1FS4A
PTZ-TE25-4.7B
PTZ-TE25-8.2A
PTZ-TE25-8.2B



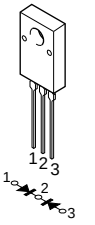
D2S4MF



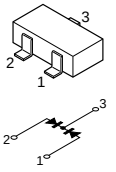
D6SB80



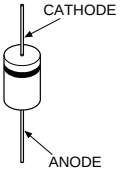
D10SC9M



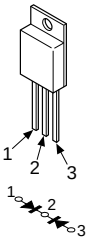
DAN202K



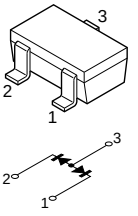
EL1Z
RGP10GPKG23



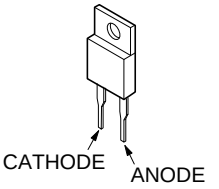
F10P06Q
FCQ20A04



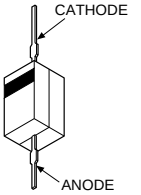
FMG-G2CS



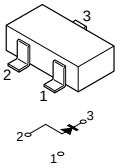
FSF10A60



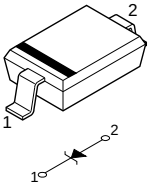
P6KE200AG23



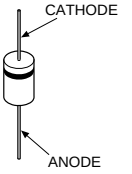
RD12M-B2



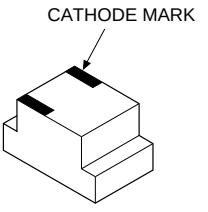
RD5.6SB2



RGP10JPKG23



SEC1201C
SEC1401C
SEC1801C
SEC1901C



SECTION 5
EXPLODED VIEWS

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.

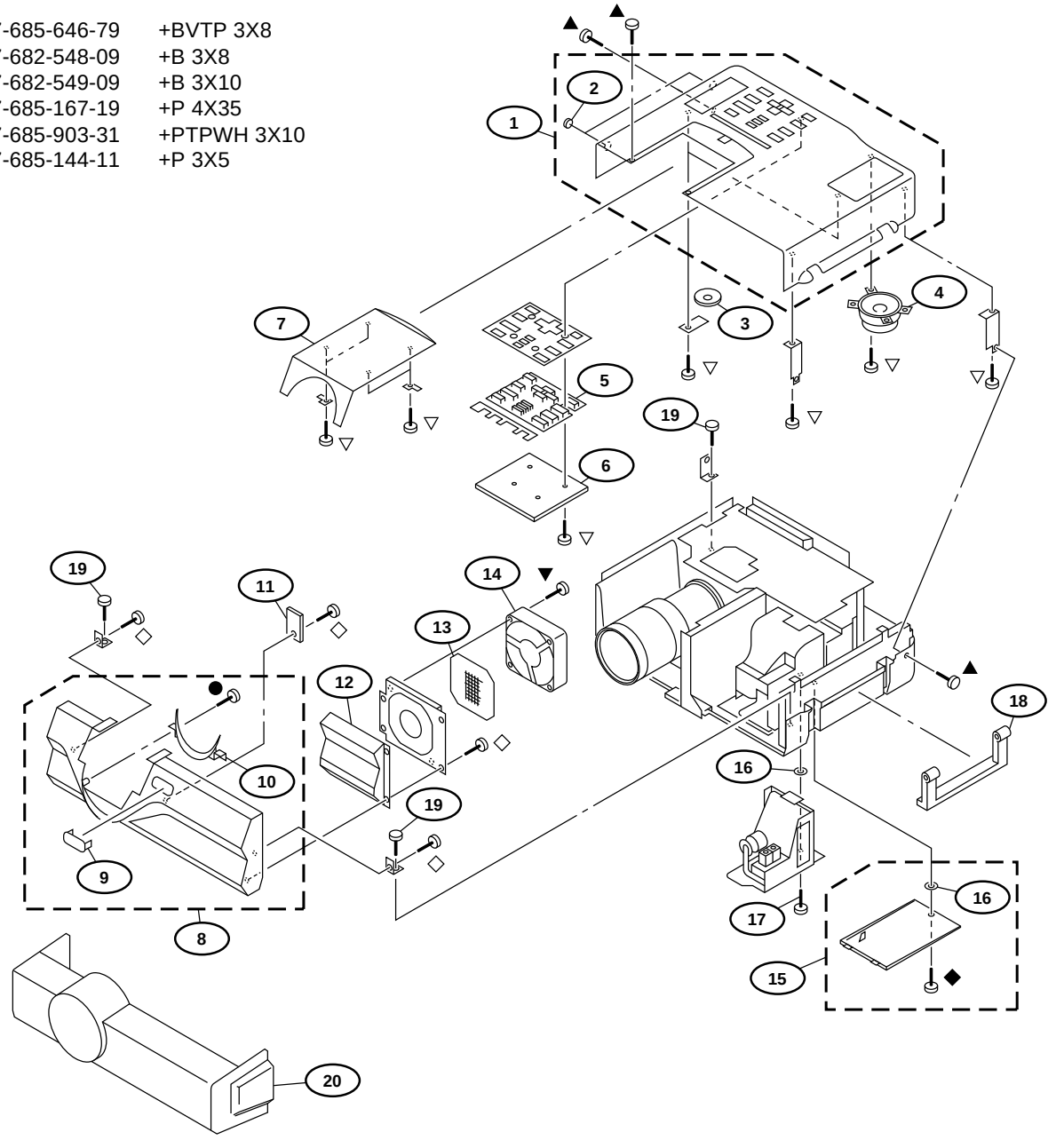
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

5-1. CABINET

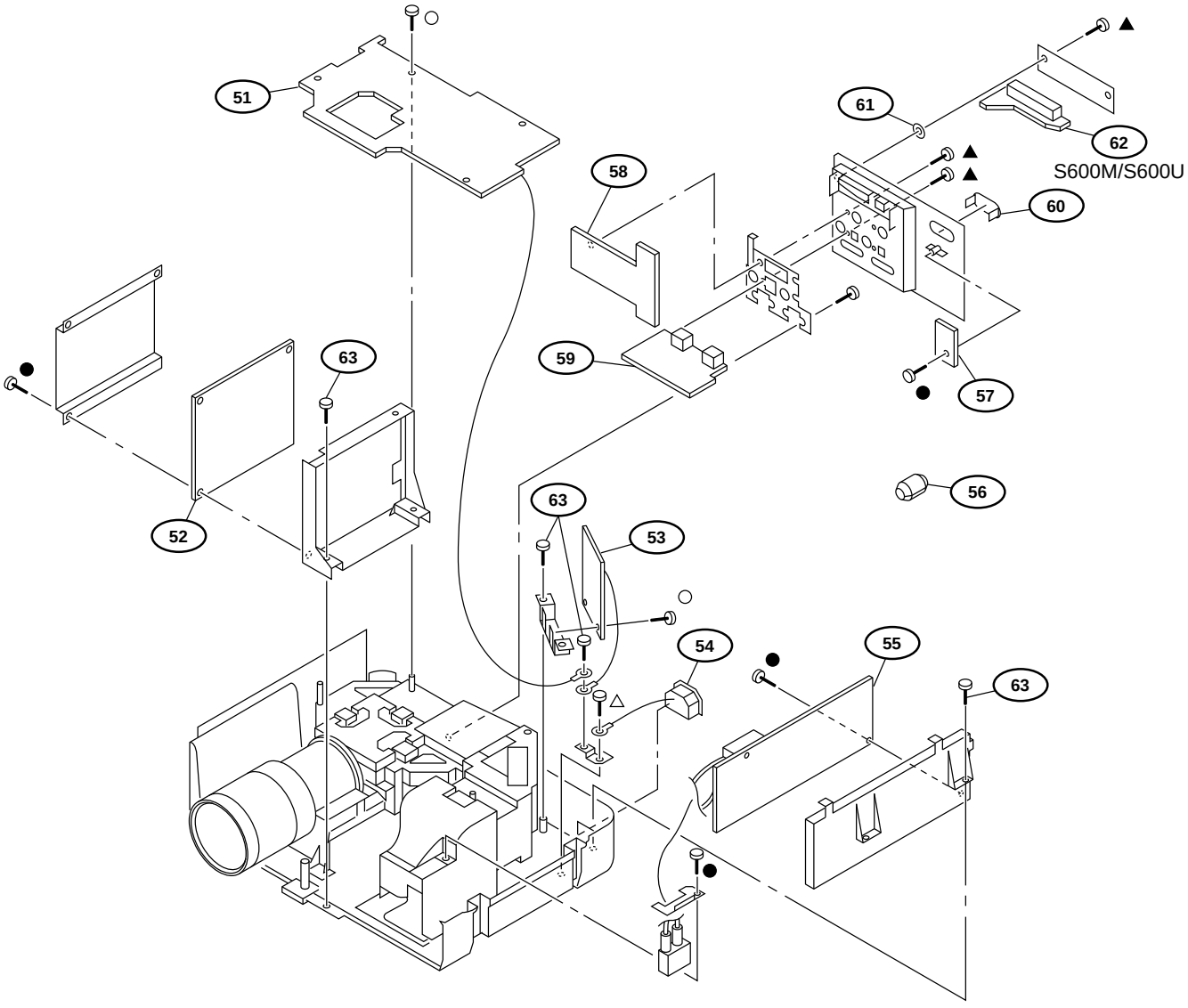
● : 7-685-646-79 +BVTP 3X8
▲ : 7-682-548-09 +B 3X8
◆ : 7-682-549-09 +B 3X10
▼ : 7-685-167-19 +P 4X35
◇ : 7-685-903-31 +PTPWH 3X10
▽ : 7-685-144-11 +P 3X5



Ref.No.	Part No.	Description	Remark
1	*X-4035-461-2	HOOD ASSY	2
2	*4-063-685-01	FOOT	
3	1-504-847-11	SPEAKER (2.8CM)	
4	1-505-282-11	SPEAKER (057F006)	
5	4-063-624-01	BUTTON, CONTROL	
6	*A-1375-172-A	H BOARD, COMPLETE	
7	*4-063-632-11	COVER (TP), LENS	
8	*X-4035-462-2	PANEL ASSY, FRONT	9,10
9	*4-063-676-01	WINDOW (FR), RM	
10	*4-063-653-11	COVER (BT), LENS	
11	*1-668-126-11	NF BOARD	
12	*4-063-640-01	DUCT (EX)	
13	*4-063-995-01	NET, FAN	
14	1-763-070-11	FAN, DC	
15	*X-4035-458-1	LAMP COVER ASSY	16
16	*3-715-526-01	WASHER (M3)	
17	4-396-203-01	SCREW (+B M3X12), PREVENTION	
18	*4-063-641-11	HANDLE	
19	4-382-854-01	SCREW (M3X8), P, SW (+)	
20	X-4035-430-2	COVER ASSY, FRONT	

5-2. CHASSIS

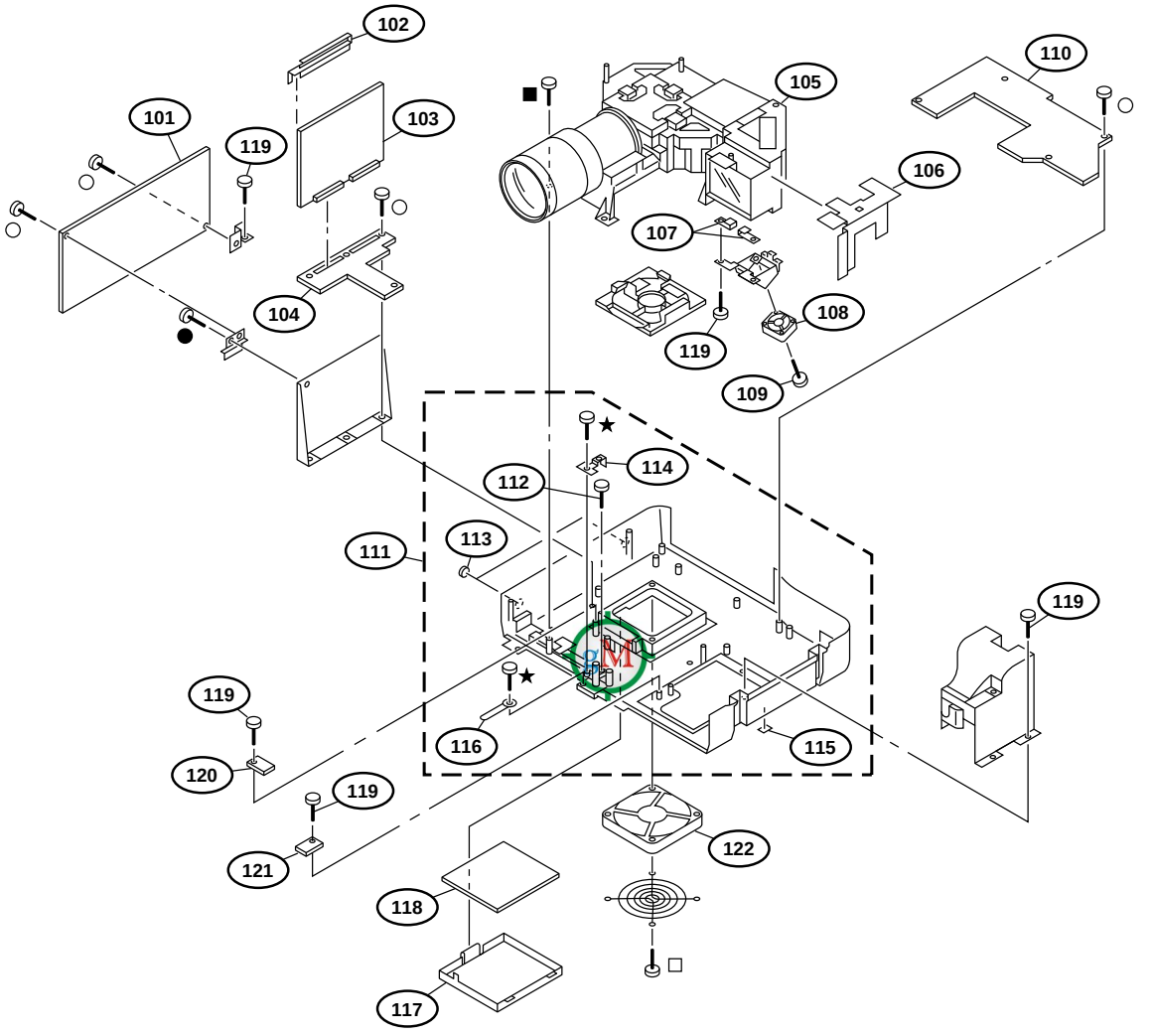
● : 7-685-646-79 +BVTP 3X8
▲ : 7-682-548-09 +B 3X8
○ : 7-682-948-01 +PSW 3X8
△ : 7-682-961-01 +PSW 4X8



Ref.No.	Part No.	Description	Remark
51	*A-1335-099-A	C BOARD, COMPLETE	
52	⚠*A-1316-340-A	GA BOARD, COMPLETE	
53	*A-1241-314-A	F BOARD, COMPLETE	
54	⚠1-526-954-11	INLET, AC	
55	⚠1-468-286-11	SUPPLY BLOCK, POWER	
56	1-500-249-11	BEAD, FERRITE (CASE)	
57	*1-668-127-11	NR BOARD	
58	*A-1275-150-A	QA BOARD, COMPLETE	
59	*A-1275-151-A	QC BOARD, COMPLETE	
60	4-063-677-01	WINDOW (RE), RM	
61	*3-715-526-01	WASHER (M3)	
62	*1-668-130-11	QB BOARD (VPL-S600U/S600M)	
63	4-382-854-01	SCREW (M3X8), P, SW (+)	

5-3. BASE

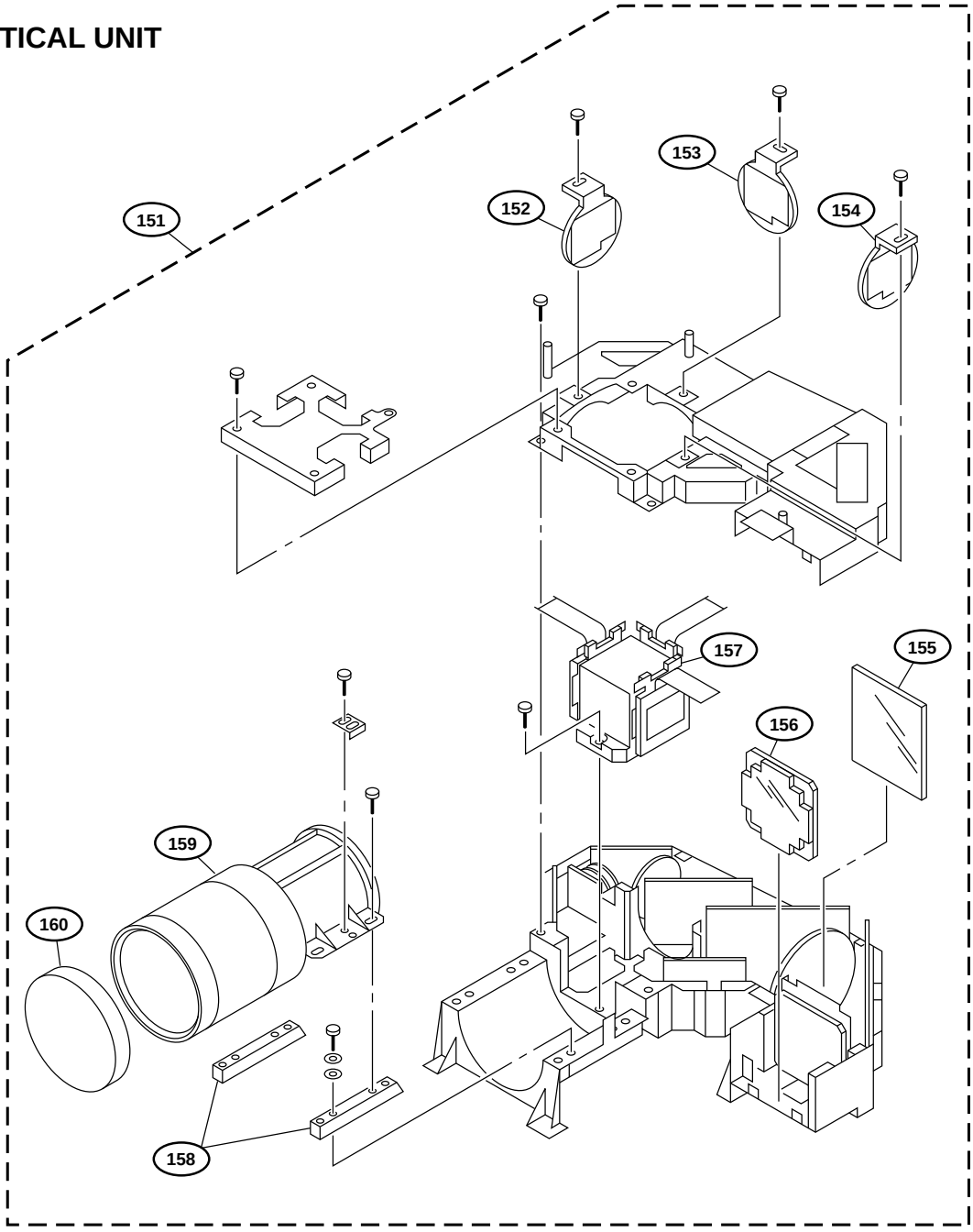
● : 7-685-646-79 +BVTP 3X8
○ : 7-682-948-01 +PSW 3X8
■ : 7-682-663-09 +PSW 4X12
□ : 7-682-667-09 +PSW 4X25
★ : 7-682-647-09 +PS 3X6



Ref.No.	Part No.	Description	Remark
101	1-475-689-21	CONVERTER UNIT, SCAN	
102	* 4-063-633-01	HOLDER (TP), GB	
103	⚠* A-1316-356-A	GB BOARD, COMPLETE	
104	* A-1316-369-A	GBA BOARD, COMPLETE	
105	1-758-156-11	OPTICAL UNIT	
106	* 4-064-095-01	GUARD (A), LIGHTING	
107	4-064-094-01	NUT, SPRING	
108	1-763-101-11	FAN, DC	
109	4-382-854-21	SCREW (M3X14), P, SW (+)	
110	* A-1135-928-A	BA BOARD, COMPLETE	
111	* X-4035-460-2	BASE ASSY	112-116

Ref.No.	Part No.	Description	Remark
112	4-054-855-01	SCREW (+PWH M3X10), MACHINE	
113	* 4-063-685-01	FOOT	
114	* 4-064-059-01	BRACKET, GBA	
115	* 4-064-163-01	CUSHION, HANDLE	
116	* 4-908-882-01	CLAMP	
117	4-063-639-01	COVER, FILTER	
118	4-063-684-01	FILTER	
119	4-382-854-01	SCREW (M3X8), P, SW (+)	
120	* 1-668-124-11	V BOARD	
121	* 1-668-125-11	U BOARD	
122	1-763-069-11	FAN, DC	

5-4. OPTICAL UNIT



Ref.No.	Part No.	Description	Remark
151	1-758-156-11	OPTICAL UNIT	152-160
152	9-880-349-01	POLARIZATION PLATE (R)/ CONDENSER LENS	
153	9-880-347-01	POLARIZATION PLATE (G)/ CONDENSER LENS	
154	9-880-348-01	POLARIZATION PLATE (B)/ CONDENSER LENS	
155	9-880-346-01	PS CONVERTER	
156	9-880-344-01	FLYEYE LENS A	
157	9-880-341-01	PRISM BLOCK, S600	
158	9-880-355-01	SPACER, COMPLETE	
159	9-880-343-01	PROJECTION LENS	
160	9-880-361-01	LENS CAP	

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

- The components identified by ⋈ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

- CAPACITORS
  PF : μμ F
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
*	A-1135-928-A	BA BOARD, COMPLETE			
		**********			
		<CAPACITOR>			
C2001	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C2002	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C2003	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C2004	1-126-205-11	ELECT CHIP 47MF	20%	6.3V	
C2005	1-126-205-11	ELECT CHIP 47MF	20%	6.3V	
C2006	1-126-205-11	ELECT CHIP 47MF	20%	6.3V	
C2007	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C2008	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C2009	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C2010	1-107-686-11	TANTAL. CHIP 4.7MF	20%	16V	
C2011	1-107-686-11	TANTAL. CHIP 4.7MF	20%	16V	
C2012	1-107-686-11	TANTAL. CHIP 4.7MF	20%	16V	
C2013	1-107-686-11	TANTAL. CHIP 4.7MF	20%	16V	
C2014	1-126-205-11	ELECT CHIP 47MF	20%	6.3V	
C2015	1-126-205-11	ELECT CHIP 47MF	20%	6.3V	
C2016	1-126-205-11	ELECT CHIP 47MF	20%	6.3V	
C2018	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2019	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2020	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2021	1-164-489-11	CERAMIC CHIP 0.22MF	10%	16V	
C2022	1-164-489-11	CERAMIC CHIP 0.22MF	10%	16V	
C2023	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2024	1-164-489-11	CERAMIC CHIP 0.22MF	10%	16V	
C2025	1-164-489-11	CERAMIC CHIP 0.22MF	10%	16V	
C2026	1-164-489-11	CERAMIC CHIP 0.22MF	10%	16V	
C2027	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2028	1-164-489-11	CERAMIC CHIP 0.22MF	10%	16V	
C2033	1-117-681-11	ELECT CHIP 100MF	20%	16V	
C2034	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2037	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C2038	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C2039	1-117-681-11	ELECT CHIP 100MF	20%	16V	
C2040	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2041	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2042	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2043	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2044	1-117-681-11	ELECT CHIP 100MF	20%	16V	
C2045	1-164-182-11	CERAMIC CHIP 0.0033MF	10%	50V	
C2046	1-117-681-11	ELECT CHIP 100MF	20%	16V	
C2047	1-164-182-11	CERAMIC CHIP 0.0033MF	10%	50V	
C2048	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2049	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2050	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2051	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2052	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2053	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2054	1-117-681-11	ELECT CHIP 100MF	20%	16V	
C2055	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2056	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2057	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2058	1-163-263-11	CERAMIC CHIP 330PF	5%	50V	
C2059	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2060	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2061	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2062	1-117-681-11	ELECT CHIP 100MF	20%	16V	
C2063	1-117-681-11	ELECT CHIP 100MF	20%	16V	
C2065	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2069	1-126-204-11	ELECT CHIP 47MF	20%	16V	
C2070	1-126-204-11	ELECT CHIP 47MF	20%	16V	
C2071	1-126-204-11	ELECT CHIP 47MF	20%	16V	
C2078	1-126-204-11	ELECT CHIP 47MF	20%	16V	
C2079	1-126-204-11	ELECT CHIP 47MF	20%	16V	
C2080	1-126-204-11	ELECT CHIP 47MF	20%	16V	
C2081	1-126-204-11	ELECT CHIP 47MF	20%	16V	
C2082	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2083	1-117-681-11	ELECT CHIP 100MF	20%	16V	
C2084	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2085	1-124-779-00	ELECT CHIP 10MF	20%	16V	
C2086	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2087	1-124-779-00	ELECT CHIP 10MF	20%	16V	
C2089	1-163-099-00	CERAMIC CHIP 18PF	5%	50V	
C2090	1-117-681-11	ELECT CHIP 100MF	20%	16V	
C2091	1-117-681-11	ELECT CHIP 100MF	20%	16V	
C2092	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2093	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2094	1-163-239-11	CERAMIC CHIP 33PF	5%	50V	
C2099	1-126-204-11	ELECT CHIP 47MF	20%	16V	
C2106	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2116	1-124-779-00	ELECT CHIP 10MF	20%	16V	
C2117	1-117-681-11	ELECT CHIP 100MF	20%	16V	
C2118	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2119	1-107-686-11	TANTAL. CHIP 4.7MF	20%	16V	
C2120	1-117-681-11	ELECT CHIP 100MF	20%	16V	
C2121	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2122	1-107-686-11	TANTAL. CHIP 4.7MF	20%	16V	
C2123	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2125	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2126	1-163-229-11	CERAMIC CHIP 12PF	5%	50V	
C2127	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2128	1-117-681-11	ELECT CHIP 100MF	20%	16V	
C2129	1-163-229-11	CERAMIC CHIP 12PF	5%	50V	
C2130	1-107-686-11	TANTAL. CHIP 4.7MF	20%	16V	
C2131	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2134	1-163-229-11	CERAMIC CHIP 12PF	5%	50V	
C2135	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2136	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2137	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2138	1-164-182-11	CERAMIC CHIP 0.0033MF	10%	50V	
C2139	1-164-346-11	CERAMIC CHIP 1MF		16V	
C2140	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2141	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2142	1-107-686-11	TANTAL. CHIP 4.7MF	20%	16V	
C2143	1-164-489-11	CERAMIC CHIP 0.22MF	10%	16V	
C2144	1-126-941-11	ELECT 470MF	20%	25V	
C2145	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2146	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2147	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V	
C2148	1-107-682-11	CERAMIC CHIP 1MF	10%	16V	
C2154	1-163-237-11	CERAMIC CHIP 27PF	5%	50V	
C2158	1-117-681-11	ELECT CHIP 100MF	20%	16V	
C2160	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2163	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	

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BA

Ref.No.	Part No.	Description			Remark
C2164	1-117-681-11	ELECT CHIP	100MF	20%	16V
C2165	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2166	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2167	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2168	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2169	1-124-779-00	ELECT CHIP	10MF	20%	16V
C2170	1-126-193-11	ELECT CHIP	1MF	20%	50V
C2171	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2172	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2173	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2174	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2175	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2176	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2177	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2178	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2179	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2180	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2181	1-109-982-11	CERAMIC CHIP	1MF	10%	10V
C2182	1-109-982-11	CERAMIC CHIP	1MF	10%	10V
C2185	1-126-205-11	ELECT CHIP	47MF	20%	6.3V
C2186	1-126-205-11	ELECT CHIP	47MF	20%	6.3V
C2187	1-126-205-11	ELECT CHIP	47MF	20%	6.3V
C2188	1-126-205-11	ELECT CHIP	47MF	20%	6.3V
C2189	1-126-205-11	ELECT CHIP	47MF	20%	6.3V
C2190	1-126-205-11	ELECT CHIP	47MF	20%	6.3V
C2192	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2195	1-117-681-11	ELECT CHIP	100MF	20%	16V
C2196	1-117-681-11	ELECT CHIP	100MF	20%	16V
C2197	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2200	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2216	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2219	1-126-603-11	ELECT CHIP	4.7MF	20%	35V
C2220	1-126-603-11	ELECT CHIP	4.7MF	20%	35V
C2221	1-126-204-11	ELECT CHIP	47MF	20%	16V
C2222	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C2223	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C2224	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C2225	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2226	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2227	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2231	1-117-154-11	ELECT	33MF	20%	16V
C2232	1-163-614-11	CERAMIC CHIP	220PF	5%	50V
C2233	1-163-614-11	CERAMIC CHIP	220PF	5%	50V
C2234	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C2235	1-117-154-11	ELECT	33MF	20%	16V
C2301	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2302	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2303	1-117-681-11	ELECT CHIP	100MF	20%	16V
C2304	1-128-416-11	ELECT CHIP	100MF	20%	16V
C2305	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2306	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2307	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2308	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2309	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2310	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2311	1-126-603-11	ELECT CHIP	4.7MF	20%	35V
C2312	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2313	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C2314	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2315	1-163-089-00	CERAMIC CHIP	6PF	0.5PF	50V
C2316	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2317	1-117-154-11	ELECT	33MF	20%	16V
C2318	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2319	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2320	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2321	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2322	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2323	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
		<CONNECTOR>			
CN2001	1-784-828-11	CONNECTOR, D SUB			
CN2002	1-784-828-11	CONNECTOR, D SUB			
CN2003	1-573-806-21	PIN, CONNECTOR (1.5MM) (SMD)6P			
CN2004 *	1-766-383-11	PIN, CONNECTOR (1.5MM)(SMD)12P			
CN2005 *	1-766-382-11	PIN, CONNECTOR (1.5MM)(SMD)10P			
CN2006	1-573-290-21	PIN, CONNECTOR (1.5MM) (SMD)4P			
CN2007	1-691-591-11	PIN, CONNECTOR (1.5MM) (SMD)8P			
		<DIODE>			
D2001	8-719-800-76	DIODE 1SS226			
D2002	8-719-800-76	DIODE 1SS226			
D2003	8-719-800-76	DIODE 1SS226			
D2004	8-719-800-76	DIODE 1SS226			
D2005	8-719-800-76	DIODE 1SS226			
D2006	8-719-800-76	DIODE 1SS226			
D2007	8-719-106-23	DIODE RD7.5M-B2			
D2008	8-719-106-23	DIODE RD7.5M-B2			
D2009	8-719-106-23	DIODE RD7.5M-B2			
D2010	8-719-106-23	DIODE RD7.5M-B2			
D2012	8-719-158-37	DIODE RD9.1SB2			
D2013	8-719-158-37	DIODE RD9.1SB2			
D2014	8-719-158-37	DIODE RD9.1SB2			
D2015	8-719-914-43	DIODE DAN202K			
D2016	8-719-800-76	DIODE 1SS226			
D2017	8-719-800-76	DIODE 1SS226			
D2018	8-719-158-37	DIODE RD9.1SB2			
D2301	8-719-914-43	DIODE DAN202K			
		<FILTER>			
FL2001	1-239-397-11	FILTER, LOW PASS			
FL2002	1-239-397-11	FILTER, LOW PASS			
FL2003	1-239-397-11	FILTER, LOW PASS			
FL2004	1-234-089-21	FILTER, EMI (SMD)			
FL2005	1-247-807-31	CARBON	100	5%	1/4W
FL2009	1-234-089-21	FILTER, EMI (SMD)			
FL2010	1-247-807-31	CARBON	100	5%	1/4W
		<IC>			
IC2001	8-752-072-94	IC CXA1875AM-T4			
IC2002	8-759-522-86	IC M52755FP-TP			
IC2003	8-752-073-52	IC CXA2016S			
IC2004	8-752-073-52	IC CXA2016S			
IC2005	8-759-491-93	IC EL4332CS-TE2			

Ref.No.	Part No.	Description	Remark
IC2006	8-759-272-90	IC 74VHC240SJX	
IC2007	8-759-272-90	IC 74VHC240SJX	
IC2008	8-759-387-75	IC TC7W00F(TE12R)	
IC2012	8-759-492-19	IC MM1231XFBE	
IC2014	8-759-335-57	IC MM1112XF	
IC2015	8-759-295-47	IC TDA9141-N2C	
IC2016	8-759-288-85	IC TDA4665T-T	
IC2017	8-759-335-57	IC MM1112XF	
IC2018	8-752-070-54	IC CXA1839Q-T6	
IC2022	8-752-072-94	IC CXA1875AM-T4	
IC2025	8-759-524-85	IC TC7W240FU-TE12R	
IC2026	8-759-432-78	IC MM1111XFBE	
IC2027	8-759-186-43	IC TC74VHC123AF	
IC2301	8-752-372-78	IC CXD2024AQ	
IC2302	8-759-711-62	IC NJM2240M	
		<COIL>	
L2001	1-410-671-31	INDUCTOR 47UH	
L2011	1-414-235-11	INDUCTOR CHIP 0UH	
L2012	1-414-235-11	INDUCTOR CHIP 0UH	
L2013	1-414-235-11	INDUCTOR CHIP 0UH	
L2014	1-414-235-11	INDUCTOR CHIP 0UH	
L2015	1-412-363-21	FERRITE 0UH	
L2016	1-412-363-21	FERRITE 0UH	
L2017	1-412-363-21	FERRITE 0UH	
L2023	1-414-235-11	INDUCTOR CHIP 0UH	
L2024	1-414-235-11	INDUCTOR CHIP 0UH	
L2025	1-414-235-11	INDUCTOR CHIP 0UH	
L2026	1-414-235-11	INDUCTOR CHIP 0UH	
L2027	1-412-796-41	INDUCTOR 47UH	
L2028	1-414-235-11	INDUCTOR CHIP 0UH	
L2029	1-414-235-11	INDUCTOR CHIP 0UH	
L2301	1-414-267-11	INDUCTOR 10UH	
L2302	1-414-267-11	INDUCTOR 10UH	
L2303	1-414-267-11	INDUCTOR 10UH	
		<TRANSISTOR>	
Q2001	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2002	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2003	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2004	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2005	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2006	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2007	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2008	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2009	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2010	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2011	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2012	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2013	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2014	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2015	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2016	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2017	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2018	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2019	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2020	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2021	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2022	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2023	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2024	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2025	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2026	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2027	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2028	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q2029	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2030	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2031	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2032	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2035	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2036	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2037	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2038	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2039	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2040	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2301	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2302	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q2303	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2304	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2305	8-729-230-49	TRANSISTOR 2SC2712-YG	
		<RESISTOR>	
R2001	1-216-295-91	SHORT 0	
R2002	1-216-295-91	SHORT 0	
R2003	1-216-295-91	SHORT 0	
R2004	1-216-295-91	SHORT 0	
R2005	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R2006	1-216-043-91	RES,CHIP 560 5% 1/10W	
R2007	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R2008	1-216-043-91	RES,CHIP 560 5% 1/10W	
R2009	1-216-625-11	METAL CHIP 82 0.50% 1/10W	
R2010	1-216-625-11	METAL CHIP 82 0.50% 1/10W	
R2011	1-216-625-11	METAL CHIP 82 0.50% 1/10W	
R2012	1-216-625-11	METAL CHIP 82 0.50% 1/10W	
R2013	1-216-625-11	METAL CHIP 82 0.50% 1/10W	
R2014	1-216-625-11	METAL CHIP 82 0.50% 1/10W	
R2015	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R2016	1-216-025-91	RES,CHIP 100 5% 1/10W	
R2017	1-216-025-91	RES,CHIP 100 5% 1/10W	
R2018	1-216-025-91	RES,CHIP 100 5% 1/10W	
R2019	1-216-025-91	RES,CHIP 100 5% 1/10W	
R2020	1-216-025-91	RES,CHIP 100 5% 1/10W	
R2021	1-216-025-91	RES,CHIP 100 5% 1/10W	
R2022	1-216-085-00	RES,CHIP 33K 5% 1/10W	
R2023	1-216-685-11	METAL CHIP 27K 0.50% 1/10W	
R2024	1-216-677-11	METAL CHIP 12K 0.50% 1/10W	
R2025	1-216-085-00	RES,CHIP 33K 5% 1/10W	
R2026	1-216-685-11	METAL CHIP 27K 0.50% 1/10W	
R2027	1-216-677-11	METAL CHIP 12K 0.50% 1/10W	
R2028	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R2029	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R2030	1-216-025-91	RES,CHIP 100 5% 1/10W	
R2031	1-216-025-91	RES,CHIP 100 5% 1/10W	
R2032	1-216-025-91	RES,CHIP 100 5% 1/10W	
R2033	1-216-025-91	RES,CHIP 100 5% 1/10W	

Ref.No.	Part No.	Description			Remark
R2034	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2035	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2036	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2037	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2038	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2039	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2040	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2041	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2042	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2043	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2044	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2045	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2046	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2047	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R2048	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2049	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R2050	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R2051	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R2052	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2053	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R2054	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R2055	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R2056	1-216-025-91	RES,CHIP	100	5%	1/10W
R2057	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2058	1-216-081-00	RES,CHIP	22K	5%	1/10W
R2059	1-216-041-00	RES,CHIP	470	5%	1/10W
R2060	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R2061	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R2062	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R2063	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R2064	1-216-017-91	RES,CHIP	47	5%	1/10W
R2065	1-216-017-91	RES,CHIP	47	5%	1/10W
R2066	1-216-085-00	RES,CHIP	33K	5%	1/10W
R2067	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2068	1-216-085-00	RES,CHIP	33K	5%	1/10W
R2069	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2070	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R2071	1-216-041-00	RES,CHIP	470	5%	1/10W
R2072	1-216-656-11	METAL CHIP	1.6K	0.50%	1/10W
R2073	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R2074	1-216-041-00	RES,CHIP	470	5%	1/10W
R2075	1-216-656-11	METAL CHIP	1.6K	0.50%	1/10W
R2076	1-216-041-00	RES,CHIP	470	5%	1/10W
R2077	1-216-041-00	RES,CHIP	470	5%	1/10W
R2078	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2079	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R2080	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R2081	1-216-043-91	RES,CHIP	560	5%	1/10W
R2082	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R2083	1-216-043-91	RES,CHIP	560	5%	1/10W
R2084	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R2085	1-216-043-91	RES,CHIP	560	5%	1/10W
R2086	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2087	1-216-041-00	RES,CHIP	470	5%	1/10W
R2088	1-216-025-91	RES,CHIP	100	5%	1/10W
R2089	1-216-025-91	RES,CHIP	100	5%	1/10W
R2092	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2093	1-216-081-00	RES,CHIP	22K	5%	1/10W

Ref.No.	Part No.	Description			Remark
R2095	1-216-025-91	RES,CHIP	100	5%	1/10W
R2096	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R2097	1-216-043-91	RES,CHIP	560	5%	1/10W
R2099	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R2100	1-216-025-91	RES,CHIP	100	5%	1/10W
R2101	1-216-025-91	RES,CHIP	100	5%	1/10W
R2102	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2103	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2104	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2105	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2106	1-216-025-91	RES,CHIP	100	5%	1/10W
R2107	1-216-025-91	RES,CHIP	100	5%	1/10W
R2108	1-216-295-91	SHORT	0		
R2109	1-216-295-91	SHORT	0		
R2110	1-216-649-11	METAL CHIP	820	0.50%	1/10W
R2111	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R2112	1-216-025-91	RES,CHIP	100	5%	1/10W
R2113	1-216-095-00	RES,CHIP	82K	5%	1/10W
R2114	1-216-649-11	METAL CHIP	820	0.50%	1/10W
R2115	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R2116	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2117	1-216-025-91	RES,CHIP	100	5%	1/10W
R2118	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2119	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2120	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R2121	1-216-043-91	RES,CHIP	560	5%	1/10W
R2122	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R2123	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R2124	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R2125	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2126	1-216-025-91	RES,CHIP	100	5%	1/10W
R2127	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2128	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2129	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2130	1-216-025-91	RES,CHIP	100	5%	1/10W
R2131	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2132	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R2133	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R2134	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2135	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2136	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2137	1-216-025-91	RES,CHIP	100	5%	1/10W
R2138	1-216-033-00	RES,CHIP	220	5%	1/10W
R2139	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R2140	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R2141	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2142	1-216-025-91	RES,CHIP	100	5%	1/10W
R2143	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2144	1-216-295-91	SHORT	0		
R2145	1-216-295-91	SHORT	0		
R2146	1-216-083-00	RES,CHIP	27K	5%	1/10W
R2147	1-216-025-91	RES,CHIP	100	5%	1/10W
R2148	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2149	1-216-025-91	RES,CHIP	100	5%	1/10W
R2151	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2158	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2159	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2167	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2168	1-216-073-00	RES,CHIP	10K	5%	1/10W

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Ref.No.	Part No.	Description			Remark
R2186	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R2187	1-216-641-11	METAL CHIP	390	0.50%	1/10W
R2188	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2189	1-216-081-00	RES,CHIP	22K	5%	1/10W
R2190	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R2191	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R2192	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R2193	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R2194	1-216-643-11	METAL CHIP	470	0.50%	1/10W
R2195	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W
R2196	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2197	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2198	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2199	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2200	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2201	1-216-025-91	RES,CHIP	100	5%	1/10W
R2202	1-216-025-91	RES,CHIP	100	5%	1/10W
R2204	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R2205	1-216-629-11	METAL CHIP	120	0.50%	1/10W
R2206	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2207	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R2208	1-216-629-11	METAL CHIP	120	0.50%	1/10W
R2209	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2210	1-216-025-91	RES,CHIP	100	5%	1/10W
R2211	1-216-025-91	RES,CHIP	100	5%	1/10W
R2212	1-216-295-91	SHORT	0		
R2213	1-216-295-91	SHORT	0		
R2214	1-216-295-91	SHORT	0		
R2216	1-216-295-91	SHORT	0		
R2217	1-216-295-91	SHORT	0		
R2218	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
R2219	1-216-035-00	RES,CHIP	270	5%	1/10W
R2220	1-216-035-00	RES,CHIP	270	5%	1/10W
R2221	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2222	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2223	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2224	1-216-017-91	RES,CHIP	47	5%	1/10W
R2225	1-216-017-91	RES,CHIP	47	5%	1/10W
R2226	1-216-017-91	RES,CHIP	47	5%	1/10W
R2227	1-216-017-91	RES,CHIP	47	5%	1/10W
R2228	1-216-017-91	RES,CHIP	47	5%	1/10W
R2229	1-216-017-91	RES,CHIP	47	5%	1/10W
R2233	1-216-025-91	RES,CHIP	100	5%	1/10W
R2234	1-216-025-91	RES,CHIP	100	5%	1/10W
R2235	1-216-025-91	RES,CHIP	100	5%	1/10W
R2236	1-216-025-91	RES,CHIP	100	5%	1/10W
R2237	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R2238	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R2239	1-216-295-91	SHORT	0		
R2241	1-216-001-00	RES,CHIP	10	5%	1/10W
R2301	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2302	1-216-025-91	RES,CHIP	100	5%	1/10W
R2303	1-216-025-91	RES,CHIP	100	5%	1/10W
R2304	1-216-025-91	RES,CHIP	100	5%	1/10W
R2306	1-216-033-00	RES,CHIP	220	5%	1/10W
R2307	1-216-635-11	METAL CHIP	220	0.50%	1/10W
R2308	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2309	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R2310	1-216-037-00	RES,CHIP	330	5%	1/10W
R2311	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2312	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2313	1-216-635-11	METAL CHIP	220	0.50%	1/10W
R2314	1-216-025-91	RES,CHIP	100	5%	1/10W
R2315	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R2316	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R2317	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W
R2318	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R2319	1-216-025-91	RES,CHIP	100	5%	1/10W
R2320	1-216-041-00	RES,CHIP	470	5%	1/10W
R2321	1-216-025-91	RES,CHIP	100	5%	1/10W

<SWITCH>

S2001 1-570-619-11 SWITCH, DIP

<THERMISTOR>

TH2001 1-809-020-11 THERMISTOR
TH2002 1-809-020-11 THERMISTOR

<CRYSTAL>

X2001 1-579-973-11 VIBRATOR, CRYSTAL
X2002 1-760-191-11 VIBRATOR, CRYSTAL
X2003 1-760-191-11 VIBRATOR, CRYSTAL

****

* A-1241-314-A F BOARD, COMPLETE
****

* 4-374-846-01 COVER, CAPACITOR, CAP TYPE

<CAPACITOR>

C9001 ⚠1-113-912-51 CERAMIC 0.0047MF 20% 250V
C9002 ⚠1-113-912-51 CERAMIC 0.0047MF 20% 250V
C9003 ⚠1-113-513-11 FILM 1MF 20% 275V
C9004 ⚠1-113-513-11 FILM 1MF 20% 275V
C9005 ⚠1-113-912-51 CERAMIC 0.0047MF 20% 250V
C9006 ⚠1-113-912-51 CERAMIC 0.0047MF 20% 250V

<CONNECTOR>

CN9001 ⚠*1-580-689-11PIN, CONNECTOR (PC BOARD) 4P
CN9002 ⚠*1-691-291-11PIN, CONNECTOR (PC BOARD) 5P

<FUSE>

F9001 ⚠1-576-233-11 FUSE (H.B.C.) (6.3A/250V)
1-533-223-11 HOLDER, FUSE ; F9001

<FERRITE BEAD>

FB9001⚠1-410-396-21 INDUCTOR 0.45UH

Ref.No.	Part No.	Description			Remark
		<COIL>			
L9001	⚠1-431-838-11	TRANSFORMER, LINE FILTER			
		<RESISTOR>			
R9001	⚠1-202-882-91	SOLID	560K	20%	1/2W
R9002	⚠1-202-882-91	SOLID	560K	20%	1/2W
		<VARISTOR>			
VD9001	⚠1-801-073-41	VARISTOR ERZV14D471			
**********					
	* 1-668-130-11	QB BOARD (VPL-S600U/S600M)			
		**********			
		<CONNECTOR>			
CN1501	* 1-766-383-11	PIN, CONNECTOR (1.5MM)(SMD)12P			
		<JACK>			
J1501	1-770-053-11	TERMINAL BLOCK, S(LIGHT ANGLE)			
**********					
	* A-1275-150-A	QA BOARD, COMPLETE			
		**********			
		<CAPACITOR>			
C1001	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1003	1-126-603-11	ELECT CHIP	4.7MF	20%	35V
C1005	1-126-603-11	ELECT CHIP	4.7MF	20%	35V
C1006	1-126-603-11	ELECT CHIP	4.7MF	20%	35V
C1007	1-126-603-11	ELECT CHIP	4.7MF	20%	35V
C1008	1-126-191-11	ELECT CHIP	0.47MF	20%	50V
C1009	1-126-191-11	ELECT CHIP	0.47MF	20%	50V
C1010	1-115-565-11	CERAMIC CHIP	2.2MF	10%	10V
C1011	1-115-565-11	CERAMIC CHIP	2.2MF	10%	10V
C1012	1-124-779-00	ELECT CHIP	10MF	20%	16V
C1024	1-124-779-00	ELECT CHIP	10MF	20%	16V
C1030	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1040	1-107-682-11	CERAMIC CHIP	1MF	10%	16V
C1041	1-107-682-11	CERAMIC CHIP	1MF	10%	16V
C1048	1-126-395-11	ELECT CHIP	22MF	20%	16V
C1049	1-126-395-11	ELECT CHIP	22MF	20%	16V
C1050	1-126-601-11	ELECT CHIP	2.2MF	20%	50V
C1051	1-117-681-11	ELECT CHIP	100MF	20%	16V
C1052	1-107-682-11	CERAMIC CHIP	1MF	10%	16V
C1053	1-117-681-11	ELECT CHIP	100MF	20%	16V
C1054	1-117-681-11	ELECT CHIP	100MF	20%	16V
C1055	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C1056	1-117-681-11	ELECT CHIP	100MF	20%	16V
C1057	1-117-681-11	ELECT CHIP	100MF	20%	16V
C1058	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C1059	1-117-681-11	ELECT CHIP	100MF	20%	16V
C1060	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1061	1-126-603-11	ELECT CHIP	4.7MF	20%	35V
C1062	1-126-603-11	ELECT CHIP	4.7MF	20%	35V
C1063	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C1064	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C1065	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C1066	1-124-779-00	ELECT CHIP	10MF	20%	16V
C1068	1-107-682-11	CERAMIC CHIP	1MF	10%	16V
C1069	1-124-779-00	ELECT CHIP	10MF	20%	16V
C1070	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C1071	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C1072	1-124-779-00	ELECT CHIP	10MF	20%	16V
C1073	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C1074	1-124-779-00	ELECT CHIP	10MF	20%	16V
C1075	1-107-682-11	CERAMIC CHIP	1MF	10%	16V
C1077	1-117-681-11	ELECT CHIP	100MF	20%	16V
C1078	1-124-779-00	ELECT CHIP	10MF	20%	16V
C1079	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1080	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1081	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1082	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1083	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1084	1-124-779-00	ELECT CHIP	10MF	20%	16V
C1085	1-124-779-00	ELECT CHIP	10MF	20%	16V
C1086	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C1087	1-107-682-11	CERAMIC CHIP	1MF	10%	16V
C1088	1-126-204-11	ELECT CHIP	47MF	20%	16V
C1089	1-126-204-11	ELECT CHIP	47MF	20%	16V
C1090	1-163-023-00	CERAMIC CHIP	0.015MF	10%	50V
C1091	1-163-023-00	CERAMIC CHIP	0.015MF	10%	50V
C1092	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1093	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1094	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1095	1-107-682-11	CERAMIC CHIP	1MF	10%	16V
C1096	1-107-682-11	CERAMIC CHIP	1MF	10%	16V
C1097	1-107-682-11	CERAMIC CHIP	1MF	10%	16V
		<CONNECTOR>			
CN1001	1-580-789-21	PIN, CONNECTOR (SMD) 6P			
CN1002	1-569-775-21	PIN, CONNECTOR 5P			
CN1003	1-580-057-11	PIN, CONNECTOR 4P			
CN1004	1-764-007-11	PIN, CONNECTOR (SMD) 12P			
		<DIODE>			
D1001	8-719-158-37	DIODE RD9.1SB2			
D1002	8-719-158-37	DIODE RD9.1SB2			
D1003	8-719-158-37	DIODE RD9.1SB2			
D1004	8-719-158-37	DIODE RD9.1SB2			
D1005	8-719-158-37	DIODE RD9.1SB2			
D1007	8-719-158-37	DIODE RD9.1SB2			
D1008	8-719-158-37	DIODE RD9.1SB2			
D1009	8-719-914-43	DIODE DAN202K			
D1010	8-719-914-44	DIODE DAP202K			

QA

Ref.No.	Part No.	Description			Remark
D1011	8-719-036-76	DIODE RD3.3SB2-T1			
D1012	8-719-914-43	DIODE DAN202K			
D1013	8-719-914-43	DIODE DAN202K			
D1014	8-719-158-37	DIODE RD9.1SB2			
D1015	8-719-158-37	DIODE RD9.1SB2			
D1016	8-719-036-76	DIODE RD3.3SB2-T1			
		<IC>			
IC1001	8-759-285-61	IC PC74HC123D-T			
IC1006	8-759-983-69	IC LM358PS			
IC1007	8-759-524-84	IC TEA2025D-013TR			
IC1008	8-752-074-42	IC CXA1946AR			
IC1009	8-759-983-69	IC LM358PS			
		<JACK>			
J1001	1-563-935-11	JACK, STEREO HEADPHONE			
J1002	1-563-935-11	JACK, STEREO HEADPHONE			
J1004	1-563-935-11	JACK, STEREO HEADPHONE			
J1005	1-563-935-11	JACK, STEREO HEADPHONE			
		<COIL>			
L1001	1-412-363-21	FERRITE	0UH		
L1002	1-412-363-21	FERRITE	0UH		
L1003	1-412-363-21	FERRITE	0UH		
L1004	1-412-363-21	FERRITE	0UH		
L1005	1-412-363-21	FERRITE	0UH		
L1006	1-412-363-21	FERRITE	0UH		
L1008	1-412-363-21	FERRITE	0UH		
L1009	1-412-363-21	FERRITE	0UH		
L1010	1-412-363-21	FERRITE	0UH		
L1011	1-412-363-21	FERRITE	0UH		
L1012	1-412-363-21	FERRITE	0UH		
		<TRANSISTOR>			
Q1001	8-729-216-22	TRANSISTOR 2SA1162-G			
Q1002	8-729-216-22	TRANSISTOR 2SA1162-G			
Q1003	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1004	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1005	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q1007	8-729-216-22	TRANSISTOR 2SA1162-G			
Q1008	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q1011	8-729-216-22	TRANSISTOR 2SA1162-G			
Q1012	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1013	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1014	8-729-230-49	TRANSISTOR 2SC2712-YG			
		<RESISTOR>			
R1001	1-216-308-00	RES,CHIP	4.7	5%	1/10W
R1002	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1003	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1004	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1005	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1007	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1008	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1009	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1010	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1011	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1012	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1013	1-216-148-00	RES,CHIP	8.2	5%	1/8W
R1014	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1015	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1017	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1018	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1027	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1028	1-216-025-91	RES,CHIP	100	5%	1/10W
R1029	1-216-025-91	RES,CHIP	100	5%	1/10W
R1033	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1034	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1037	1-216-025-91	RES,CHIP	100	5%	1/10W
R1054	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1055	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1058	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1059	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1062	1-216-025-91	RES,CHIP	100	5%	1/10W
R1072	1-216-025-91	RES,CHIP	100	5%	1/10W
R1074	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R1076	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R1077	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R1079	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R1080	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1082	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1083	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1084	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1085	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1086	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1087	1-216-075-00	RES,CHIP	12K	5%	1/10W
R1088	1-216-075-00	RES,CHIP	12K	5%	1/10W
R1089	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1090	1-216-041-00	RES,CHIP	470	5%	1/10W
R1091	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R1092	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1093	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1094	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1095	1-216-295-91	SHORT	0		
R1096	1-216-295-91	SHORT	0		
R1097	1-216-295-91	SHORT	0		
R1098	1-216-295-91	SHORT	0		
R1099	1-216-295-91	SHORT	0		
R1100	1-216-295-91	SHORT	0		
R1102	1-216-295-91	SHORT	0		
R1103	1-216-295-91	SHORT	0		
R1104	1-216-295-91	SHORT	0		
R1106	1-216-295-91	SHORT	0		
R1107	1-216-295-91	SHORT	0		
R1108	1-216-295-91	SHORT	0		
R1109	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1110	1-216-025-91	RES,CHIP	100	5%	1/10W
R1111	1-216-025-91	RES,CHIP	100	5%	1/10W
R1112	1-216-025-91	RES,CHIP	100	5%	1/10W
R1114	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1116	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1117	1-216-073-00	RES,CHIP	10K	5%	1/10W

Ref.No.	Part No.	Description			Remark
R1118	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1119	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1120	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1121	1-216-025-91	RES,CHIP	100	5%	1/10W
R1122	1-216-025-91	RES,CHIP	100	5%	1/10W
R1123	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1124	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1125	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1126	1-216-097-91	RES,CHIP	100K	5%	1/10W

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* A-1275-151-A QC BOARD, COMPLETE

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<CAPACITOR>

C1600	1-117-681-11	ELECT CHIP	100MF	20%	16V
C1601	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C1602	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C1604	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C1607	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C1609	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C1612	1-117-681-11	ELECT CHIP	100MF	20%	16V
C1614	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C1615	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C1616	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C1617	1-165-319-11	CERAMIC CHIP	0.1MF		50V

<CONNECTOR>

CN1600	1-778-830-21	CONNECTOR (BUS)
CN1601	1-569-775-21	PIN, CONNECTOR 5P
CN1602	1-778-830-21	CONNECTOR (BUS)

<DIODE>

D1600	8-719-058-24	DIODE RB501V-40TE-17
D1601	8-719-988-62	DIODE 1SS355
D1602	8-719-988-62	DIODE 1SS355
D1619	8-719-988-62	DIODE 1SS355
D1620	8-719-058-24	DIODE RB501V-40TE-17
D1621	8-719-988-62	DIODE 1SS355
D1641	8-719-988-62	DIODE 1SS355
D1642	8-719-988-62	DIODE 1SS355

<IC>

IC1600	8-759-494-31	IC 10-75253
IC1601	8-759-494-32	IC 10-46547
IC1602	8-759-439-67	IC TC7W126FU(TE12R)
IC1607	8-759-494-31	IC 10-75253
IC1608	8-759-494-32	IC 10-46547
IC1609	8-759-439-67	IC TC7W126FU(TE12R)

<TRANSISTOR>

Q1602	8-729-230-49	TRANSISTOR 2SC2712-YG
Q1603	1-801-806-11	TRANSISTOR DTC144EKA-T146
Q1606	8-729-230-49	TRANSISTOR 2SC2712-YG
Q1607	1-801-806-11	TRANSISTOR DTC144EKA-T146
Q1608	8-729-216-22	TRANSISTOR 2SA1162-G
Q1609	8-729-216-22	TRANSISTOR 2SA1162-G

<RESISTOR>

R1600	1-216-295-91	SHORT	0		
R1602	1-216-025-91	RES,CHIP	100	5%	1/10W
R1603	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R1604	1-216-025-91	RES,CHIP	100	5%	1/10W
R1605	1-216-025-91	RES,CHIP	100	5%	1/10W
R1606	1-216-025-91	RES,CHIP	100	5%	1/10W
R1607	1-216-025-91	RES,CHIP	100	5%	1/10W
R1608	1-216-025-91	RES,CHIP	100	5%	1/10W
R1609	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R1610	1-216-295-91	SHORT	0		
R1611	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R1612	1-216-025-91	RES,CHIP	100	5%	1/10W
R1613	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R1614	1-216-025-91	RES,CHIP	100	5%	1/10W
R1615	1-216-025-91	RES,CHIP	100	5%	1/10W
R1616	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R1617	1-216-091-00	RES,CHIP	56K	5%	1/10W
R1618	1-216-083-00	RES,CHIP	27K	5%	1/10W
R1619	1-216-091-00	RES,CHIP	56K	5%	1/10W
R1620	1-216-091-00	RES,CHIP	56K	5%	1/10W
R1622	1-216-083-00	RES,CHIP	27K	5%	1/10W
R1623	1-216-295-91	SHORT	0		
R1624	1-216-025-91	RES,CHIP	100	5%	1/10W
R1625	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R1626	1-216-025-91	RES,CHIP	100	5%	1/10W
R1628	1-216-025-91	RES,CHIP	100	5%	1/10W
R1629	1-216-025-91	RES,CHIP	100	5%	1/10W
R1630	1-216-025-91	RES,CHIP	100	5%	1/10W
R1631	1-216-025-91	RES,CHIP	100	5%	1/10W
R1632	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R1633	1-216-295-91	SHORT	0		
R1634	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R1635	1-216-025-91	RES,CHIP	100	5%	1/10W
R1636	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R1637	1-216-025-91	RES,CHIP	100	5%	1/10W
R1638	1-216-025-91	RES,CHIP	100	5%	1/10W
R1639	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R1640	1-216-091-00	RES,CHIP	56K	5%	1/10W
R1641	1-216-083-00	RES,CHIP	27K	5%	1/10W
R1642	1-216-091-00	RES,CHIP	56K	5%	1/10W
R1643	1-216-091-00	RES,CHIP	56K	5%	1/10W
R1645	1-216-083-00	RES,CHIP	27K	5%	1/10W
R1646	1-216-091-00	RES,CHIP	56K	5%	1/10W
R1647	1-216-091-00	RES,CHIP	56K	5%	1/10W
R1648	1-216-295-91	SHORT	0		
R1649	1-216-295-91	SHORT	0		
R1650	1-216-083-00	RES,CHIP	27K	5%	1/10W
R1651	1-216-083-00	RES,CHIP	27K	5%	1/10W
R1652	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R1653	1-216-067-00	RES,CHIP	5.6K	5%	1/10W

QC GA GB

Ref.No.	Part No.	Description			Remark
		<CRYSTAL>			
X1600	1-760-496-21	VIBRATOR, LITHIUM NIOBATE			
X1601	1-760-496-21	VIBRATOR, LITHIUM NIOBATE			
**********					
	⚠* A-1316-340-A	GA BOARD, COMPLETE			
		**********			
	1-543-923-11	FERRITE	0UH		
	4-064-799-01	SHEET, GA			
	7-682-547-04	SCREW +P 3X6			
	7-682-948-01	SCREW +PSW 3X8			
		<CAPACITOR>			
C8010	⚠1-113-513-11	FILM	1MF	20% 275V	
C8011	⚠1-137-477-61	FILM	0.47MF	10% 400V	
C8012	⚠1-163-003-91	CERAMIC CHIP	330PF	10% 50V	
C8013	⚠1-164-492-91	CERAMIC CHIP	0.15MF	10% 16V	
C8014	⚠1-164-492-91	CERAMIC CHIP	0.15MF	10% 16V	
C8015	⚠1-163-247-91	CERAMIC CHIP	68PF	5% 50V	
C8016	⚠1-163-267-91	CERAMIC CHIP	470PF	5% 50V	
C8026	⚠1-117-751-11	ELECT(BLOCK)	220MF	20% 450V	
C8034	⚠1-165-319-91	CERAMIC CHIP	0.1MF	50V	
C8035	⚠1-107-889-91	ELECT	220MF	20% 25V	
C8038	⚠1-104-330-11	CERAMIC	470PF	10% 1KV	
C8039	⚠1-104-330-11	CERAMIC	470PF	10% 1KV	
C8041	⚠1-164-004-91	CERAMIC CHIP	0.1MF	10% 25V	
		<CONNECTOR>			
CN8001	⚠*1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P			
CN8002	⚠ 1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P			
CN8003	⚠ 1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P			
CN8004	⚠*1-564-507-71	PLUG, CONNECTOR 4P			
		<DIODE>			
D8001	⚠8-719-066-75	DIODE D6SB80			
D8002	⚠8-719-060-06	DIODE FSF10A60			
D8003	⚠1-803-136-11	VARISTOR ZP2600			
D8004	⚠1-803-136-11	VARISTOR ZP2600			
D8006	⚠8-719-066-76	DIODE TF861S			
D8007	⚠8-719-055-30	DIODE D1FS4A-TA			
D8008	⚠8-719-055-30	DIODE D1FS4A-TA			
D8009	⚠8-719-055-30	DIODE D1FS4A-TA			
D8010	⚠8-719-055-30	DIODE D1FS4A-TA			
		<IC>			
IC8001	⚠8-759-485-61	IC FA5331P			
		<COIL>			
L8003	⚠1-416-534-11	COIL, CHOKE 890UH			
L8005	⚠1-416-461-11	INDUCTOR 0UH			

Ref.No.	Part No.	Description			Remark
		<TRANSISTOR>			
Q8001	⚠8-729-043-15	TRANSISTOR 2SK3013F-02			
Q8002	⚠8-729-043-15	TRANSISTOR 2SK3013F-02			
Q8003	⚠8-729-230-50	TRANSISTOR 2SC2712-YG-TE85L			
		<RESISTOR>			
R8001	⚠1-219-363-11	FUSIBLE	5.6	5% 5W	F
R8002	⚠1-219-363-11	FUSIBLE	5.6	5% 5W	F
R8003	⚠1-215-870-71	METAL OXIDE	1.5K	5% 1W	F
R8004	⚠1-215-925-71	METAL OXIDE	22K	5% 3W	F
R8005	⚠1-215-925-71	METAL OXIDE	22K	5% 3W	F
R8007	⚠1-216-003-91	RES,CHIP	12	5% 1/10W	
R8008	⚠1-216-077-91	RES,CHIP	15K	5% 1/10W	
R8009	⚠1-216-003-91	RES,CHIP	12	5% 1/10W	
R8010	⚠1-216-077-91	RES,CHIP	15K	5% 1/10W	
R8011	⚠1-220-335-91	RES,CHIP	180K	5% 1/2W	
R8012	⚠1-220-336-91	RES,CHIP	220K	5% 1/2W	
R8013	⚠1-216-057-91	RES,CHIP	2.2K	5% 1/10W	
R8014	⚠1-216-073-91	RES,CHIP	10K	5% 1/10W	
R8015	⚠1-220-337-91	RES,CHIP	270K	5% 1/2W	
R8016	⚠1-216-057-91	RES,CHIP	2.2K	5% 1/10W	
R8017	⚠1-216-101-91	RES,CHIP	150K	5% 1/10W	
R8018	⚠1-216-085-91	RES,CHIP	33K	5% 1/10W	
R8019	⚠1-216-005-91	RES,CHIP	15	5% 1/10W	
R8020	⚠1-220-335-91	RES,CHIP	180K	5% 1/2W	
R8021	⚠1-220-335-91	RES,CHIP	180K	5% 1/2W	
R8022	⚠1-216-655-91	METAL CHIP	1.5K	0.50% 1/10W	
R8028	⚠1-216-687-91	METAL CHIP	33K	0.50% 1/10W	
R8031	⚠1-220-337-91	RES,CHIP	270K	5% 1/2W	
R8032	⚠1-216-295-91	SHORT	0		
R8034	⚠1-208-604-11	REGISTER	0.22	10% 5W	F
R8036	⚠1-216-025-91	RES,CHIP	100	5% 1/10W	
R8037	⚠1-216-079-91	RES,CHIP	18K	5% 1/10W	
R8038	⚠1-216-069-91	RES,CHIP	6.8K	5% 1/10W	
R8039	⚠1-216-065-91	RES,CHIP	4.7K	5% 1/10W	
R8041	⚠1-216-053-91	RES,CHIP	1.5K	5% 1/10W	
**********					
	⚠* A-1316-356-A	GB BOARD, COMPLETE			
		**********			
	1-543-923-11	FERRITE	0UH		
	7-682-948-01	SCREW +PSW 3X8			
		<CAPACITOR>			
C7001	⚠1-107-888-91	ELECT	47MF	20% 25V	
C7002	⚠1-107-889-91	ELECT	220MF	20% 25V	
C7004	⚠1-107-491-91	ELECT	1000MF	20% 25V	
C7005	⚠1-164-004-91	CERAMIC CHIP	0.1MF	10% 25V	
C7006	⚠1-111-239-91	ELECT	47MF	20% 10V	
C7010	⚠1-163-021-91	CERAMIC CHIP	0.01MF	10% 50V	
C7011	⚠1-164-004-91	CERAMIC CHIP	0.1MF	10% 25V	
C7012	⚠1-163-259-91	CERAMIC CHIP	220PF	5% 50V	
C7013	⚠1-164-004-91	CERAMIC CHIP	0.1MF	10% 25V	
C7014	⚠1-107-889-91	ELECT	220MF	20% 25V	

Ref.No.	Part No.	Description			Remark
C7016	⚠1-163-031-91	CERAMIC CHIP 0.01MF			50V
C7026	⚠1-164-004-91	CERAMIC CHIP 0.1MF		10%	25V
C7027	⚠1-164-004-91	CERAMIC CHIP 0.1MF		10%	25V
C7031	⚠1-129-718-51	FILM	0.022MF	5%	630V
C7038	⚠1-115-784-91	ELECT	270MF	20%	25V
C7040	⚠1-115-786-91	ELECT	560MF	20%	25V
C7042	⚠1-115-786-91	ELECT	560MF	20%	25V
C7044	⚠1-115-746-31	ELECT	0.0056F	20%	10V
C7045	⚠1-111-240-91	ELECT	100MF	20%	10V
C7046	⚠1-107-823-91	CERAMIC CHIP	0.47MF	10%	16V
C7049	⚠1-115-734-91	ELECT	680MF	20%	10V
C7052	⚠1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C7054	⚠1-115-784-91	ELECT	270MF	20%	25V
C7055	⚠1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C7056	⚠1-111-240-91	ELECT	100MF	20%	10V
C7057	⚠1-107-823-91	CERAMIC CHIP	0.47MF	10%	16V
C7059	⚠1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C7060	⚠1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C7061	⚠1-111-244-91	ELECT	47MF	20%	16V
C7062	⚠1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C7063	⚠1-115-755-91	ELECT	180MF	20%	16V
C7064	⚠1-115-734-91	ELECT	680MF	20%	10V
C7065	⚠1-107-792-81	CERAMIC	100PF	5%	1KV
C7066	⚠1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C7067	⚠1-111-244-91	ELECT	47MF	20%	16V
C7068	⚠1-163-239-91	CERAMIC CHIP	33PF	5%	50V
C7069	⚠1-163-239-91	CERAMIC CHIP	33PF	5%	50V
C7070	⚠1-163-239-91	CERAMIC CHIP	33PF	5%	50V
C7071	⚠1-163-239-91	CERAMIC CHIP	33PF	5%	50V
C7072	⚠1-163-239-91	CERAMIC CHIP	33PF	5%	50V
C7073	⚠1-129-720-51	FILM	0.033MF	5%	630V
C7074	⚠1-115-339-91	CERAMIC CHIP	0.1MF	10%	50V

<CONNECTOR>

CN7001	⚠ 1-691-960-11	PIN, CONNECTOR (PC BOARD)	3P
CN7002	⚠*1-564-507-71	PLUG, CONNECTOR	4P
CN7003	⚠ 1-778-373-11	PIN, CONNECTOR (PC BOARD)	
CN7004	⚠ 1-778-373-11	PIN, CONNECTOR (PC BOARD)	

<DIODE>

D7001	⚠8-719-059-23	DIODE	P6KE200AG23
D7002	⚠8-719-947-06	DIODE	RGP10JPKG23
D7003	⚠8-719-936-85	DIODE	RGP10GPKG23
D7004	⚠8-719-124-09	DIODE	1S2836-T1
D7005	⚠8-719-106-74	DIODE	RD12M-T1B2
D7006	⚠1-803-136-11	VARISTOR	ZP2600
D7007	⚠8-719-022-98	DIODE	D2S4MTA1
D7009	⚠8-719-510-41	DIODE	D10SC9M
D7010	⚠8-719-051-96	DIODE	FMG-G2CS
D7011	⚠8-719-510-41	DIODE	D10SC9M
D7012	⚠8-719-050-21	DIODE	FCQ20A04
D7013	⚠8-719-510-13	DIODE	D10SC4MR
D7015	⚠8-719-053-92	DIODE	F10P06Q
D7016	⚠8-719-070-30	DIODE	PTZ-TE25-5.6A
D7017	⚠8-719-070-30	DIODE	PTZ-TE25-5.6A
D7018	⚠8-719-070-30	DIODE	PTZ-TE25-5.6A
D7020	⚠8-719-914-47	DIODE	DAN202K-T-146
D7021	⚠8-719-055-30	DIODE	D1FS4A-TA
D7022	⚠8-719-055-30	DIODE	D1FS4A-TA
D7023	⚠8-719-055-30	DIODE	D1FS4A-TA
D7024	⚠8-719-055-30	DIODE	D1FS4A-TA
D7025	⚠8-719-510-41	DIODE	D10SC9M
D7026	⚠8-719-053-92	DIODE	F10P06Q
D7027	⚠8-719-510-41	DIODE	D10SC9M
D7028	⚠8-719-050-21	DIODE	FCQ20A04
D7029	⚠8-719-055-30	DIODE	D1FS4A-TA
D7034	⚠8-719-070-31	DIODE	PTZ-TE25-9.1A
D7035	⚠8-719-070-31	DIODE	PTZ-TE25-9.1A

<IC>

IC7002	⚠8-759-157-17	IC	PQ05SZ1U
IC7003	⚠8-759-485-64	IC	UCC2801N
IC7005	⚠8-759-388-23	IC	TL431BCDR2
IC7006	⚠8-759-487-72	IC	TOP222Y-BB
IC7007	⚠8-759-485-63	IC	MAX1626ESA-TE2
IC7010	⚠8-759-485-63	IC	MAX1626ESA-TE2
IC7012	⚠8-759-701-79	IC	NJM7812FA
IC7013	⚠8-759-506-12	IC	PQ12RF1
IC7014	⚠8-759-506-12	IC	PQ12RF1

<COIL>

L7001	⚠1-406-976-61	INDUCTOR	0UH
L7002	⚠1-406-980-61	INDUCTOR	0UH
L7003	⚠1-406-976-21	INDUCTOR	0UH
L7004	⚠1-406-971-61	INDUCTOR	0UH
L7005	⚠1-412-531-21	INDUCTOR	33UH
L7006	⚠1-406-977-61	INDUCTOR	0UH
L7007	⚠1-412-531-21	INDUCTOR	33UH

<PHOTO COUPLER>

PH7001	⚠8-749-010-65	PHOTO COUPLER	PC123FY2
PH7002	⚠8-749-010-65	PHOTO COUPLER	PC123FY2
PH7003	⚠8-749-013-16	IC	PC357N2T

<IC LINK>

PS7001	⚠1-533-282-21	LINK, IC	(2A)
PS7003	⚠1-576-124-21	LINK, IC	(1A)
PS7004	⚠1-576-124-21	LINK, IC	(1A)
PS7005	⚠1-576-124-21	LINK, IC	(1A)
PS7006	⚠1-533-282-21	LINK, IC	(2A)
PS7007	⚠1-576-124-21	LINK, IC	(1A)
PS7010	⚠1-533-282-21	LINK, IC	(2A)
PS7011	⚠1-533-282-21	LINK, IC	(2A)
PS7013	⚠1-533-282-21	LINK, IC	(2A)

<TRANSISTOR>

Q7004	⚠8-729-031-13	TRANSISTOR	SI-9430DY-T1
Q7007	⚠8-729-230-50	TRANSISTOR	2SC2712-YG-TE85L
Q7010	⚠8-729-230-50	TRANSISTOR	2SC2712-YG-TE85L
Q7013	⚠8-729-042-96	TRANSISTOR	2SK2677F-02
Q7015	⚠8-729-031-13	TRANSISTOR	SI-9430DY-T1

Ref.No.	Part No.	Description				Remark
Q7018	⚠8-729-042-96	TRANSISTOR 2SK2677F-02				
		<RESISTOR>				
R7001	⚠1-217-418-61	FUSIBLE	0.47	10%	1/2W	F
R7002	⚠1-216-009-91	RES,CHIP	22	5%	1/10W	
R7003	⚠1-218-191-71	METAL OXIDE	0.1	5%	1W	F
R7004	⚠1-216-295-91	SHORT	0			
R7016	⚠1-216-069-91	RES,CHIP	6.8K	5%	1/10W	
R7017	⚠1-216-079-91	RES,CHIP	18K	5%	1/10W	
R7018	⚠1-216-101-91	RES,CHIP	150K	5%	1/10W	
R7019	⚠1-216-685-91	METAL CHIP	27K	0.50%	1/10W	
R7020	⚠1-216-295-91	SHORT	0			
R7023	⚠1-216-023-91	RES,CHIP	82	5%	1/10W	
R7024	⚠1-216-390-71	METAL OXIDE	1.2	5%	3W	F
R7025	⚠1-216-057-91	RES,CHIP	2.2K	5%	1/10W	
R7029	⚠1-216-021-91	RES,CHIP	68	5%	1/10W	
R7030	⚠1-216-049-91	RES,CHIP	1K	5%	1/10W	
R7031	⚠1-216-647-91	METAL CHIP	680	0.50%	1/10W	
R7032	⚠1-216-643-91	METAL CHIP	470	0.50%	1/10W	
R7033	⚠1-216-661-91	METAL CHIP	2.7K	0.50%	1/10W	
R7036	⚠1-216-025-91	RES,CHIP	100	5%	1/10W	
R7048	⚠1-215-929-71	METAL OXIDE	100K	5%	3W	F
R7049	⚠1-215-929-71	METAL OXIDE	100K	5%	3W	F
R7051	⚠1-216-025-91	RES,CHIP	100	5%	1/10W	
R7052	⚠1-216-049-91	RES,CHIP	1K	5%	1/10W	
R7053	⚠1-216-077-91	RES,CHIP	15K	5%	1/10W	
R7061	⚠1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
R7062	⚠1-216-069-91	RES,CHIP	6.8K	5%	1/10W	
R7064	⚠1-218-191-71	METAL OXIDE	0.1	5%	1W	F
R7067	⚠1-216-061-91	RES,CHIP	3.3K	5%	1/10W	
R7068	⚠1-216-061-91	RES,CHIP	3.3K	5%	1/10W	
R7069	⚠1-216-295-91	SHORT	0			
R7070	⚠1-218-191-71	METAL OXIDE	0.1	5%	1W	F
R7072	⚠1-218-191-71	METAL OXIDE	0.1	5%	1W	F
R7075	⚠1-216-023-91	RES,CHIP	82	5%	1/10W	
R7076	⚠1-216-077-91	RES,CHIP	15K	5%	1/10W	
R7077	⚠1-216-295-91	SHORT	0			
R7078	⚠1-216-025-91	RES,CHIP	100	5%	1/10W	
R7079	⚠1-216-295-91	SHORT	0			
R7083	⚠1-249-389-91	CARBON	4.7	5%	1/4W	F
R7085	⚠1-220-302-91	RES,CHIP	10K	5%	1/2W	
R7086	⚠1-216-061-91	RES,CHIP	3.3K	5%	1/10W	
R7087	⚠1-216-061-91	RES,CHIP	3.3K	5%	1/10W	
R7088	⚠1-216-061-91	RES,CHIP	3.3K	5%	1/10W	
R7089	⚠1-216-061-91	RES,CHIP	3.3K	5%	1/10W	
R7090	⚠1-215-883-71	METAL OXIDE	33	5%	2W	F
R7094	⚠1-216-311-91	RES,CHIP	6.8	5%	1/10W	
		<TRANSFORMER>				
T7001	⚠1-431-680-11	TRANSFORMER, CONVERTER (SRT)				
T7002	⚠1-431-613-11	TRANSFORMER, CONVERTER (SRT)				

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Ref.No.	Part No.	Description				Remark
	* A-1316-369-A	GBA BOARD, COMPLETE				
		**********				
		<CAPACITOR>				
C7101	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C7102	1-124-589-11	ELECT	47MF	20%	16V	
C7103	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C7104	1-124-589-11	ELECT	47MF	20%	16V	
C7105	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C7106	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C7107	1-124-589-11	ELECT	47MF	20%	16V	
C7108	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C7109	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C7110	1-124-589-11	ELECT	47MF	20%	16V	
C7111	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
		<CONNECTOR>				
CN7103	* 1-564-510-11	PLUG, CONNECTOR 7P				
CN7104	* 1-564-506-11	PLUG, CONNECTOR 3P				
CN7105	* 1-564-506-11	PLUG, CONNECTOR 3P				
CN7106	* 1-564-508-11	PLUG, CONNECTOR 5P				
CN7107	* 1-564-514-11	PLUG, CONNECTOR 11P				
CN7108	1-564-513-11	PLUG, CONNECTOR 10P				
CN7109	* 1-564-516-11	PLUG, CONNECTOR 13P				
CN7110	* 1-564-506-11	PLUG, CONNECTOR 3P				
		<IC>				
IC7101	8-759-296-72	IC PQ12SZ5U				
IC7102	8-759-335-28	IC TA78M09F(TE16L)				
IC7103	8-759-157-17	IC PQ05SZ1U				
IC7104	8-759-045-17	IC NJM79L05UA				
		<RESISTOR>				
R7101	1-216-389-11	METAL OXIDE	1	5%	3W	F

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	* A-1335-099-A	C BOARD, COMPLETE				
		**********				
		<CAPACITOR>				
C5001	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C5002	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C5003	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C5004	1-117-681-11	ELECT CHIP	100MF	20%	16V	
C5005	1-117-681-11	ELECT CHIP	100MF	20%	16V	
C5006	1-126-204-11	ELECT CHIP	47MF	20%	16V	
C5008	1-128-400-11	ELECT CHIP	47MF	20%	25V	
C5009	1-128-400-11	ELECT CHIP	47MF	20%	25V	
C5010	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C5011	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C5012	1-126-204-11	ELECT CHIP	47MF	20%	16V	
C5013	1-128-400-11	ELECT CHIP	47MF	20%	25V	

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Ref.No.	Part No.	Description	Remark
C5014	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5015	1-126-204-11	ELECT CHIP 47MF	20% 16V
C5016	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5017	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5018	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5019	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5020	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5021	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5022	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C5023	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C5024	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5027	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5028	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5029	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5031	1-126-204-11	ELECT CHIP 47MF	20% 16V
C5032	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5033	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5034	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5035	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5036	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5037	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5038	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5101	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5102	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5103	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5104	1-117-681-11	ELECT CHIP 100MF	20% 16V
C5105	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5106	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C5108	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5109	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5110	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5111	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5112	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5113	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5114	1-126-204-11	ELECT CHIP 47MF	20% 16V
C5115	1-126-204-11	ELECT CHIP 47MF	20% 16V
C5116	1-126-204-11	ELECT CHIP 47MF	20% 16V
C5117	1-126-204-11	ELECT CHIP 47MF	20% 16V
C5118	1-126-204-11	ELECT CHIP 47MF	20% 16V
C5119	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5121	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5123	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5124	1-109-994-11	CERAMIC CHIP 2.2MF	10% 10V
C5125	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5126	1-109-994-11	CERAMIC CHIP 2.2MF	10% 10V
C5127	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5128	1-109-994-11	CERAMIC CHIP 2.2MF	10% 10V
C5129	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5130	1-126-204-11	ELECT CHIP 47MF	20% 16V
C5131	1-126-204-11	ELECT CHIP 47MF	20% 16V
C5133	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5134	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5135	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5136	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5138	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5139	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5140	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5141	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5142	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5143	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5144	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5145	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5149	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5150	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5151	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5152	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5153	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5154	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5155	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5156	1-126-204-11	ELECT CHIP 47MF	20% 16V
C5158	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5159	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5160	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5167	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5168	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5169	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5170	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5214	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5215	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5217	1-126-204-11	ELECT CHIP 47MF	20% 16V
C5218	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5222	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5223	1-128-400-11	ELECT CHIP 47MF	20% 25V
C5227	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5228	1-117-681-11	ELECT CHIP 100MF	20% 16V
C5229	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5301	1-126-204-11	ELECT CHIP 47MF	20% 16V
C5302	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5306	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5307	1-128-400-11	ELECT CHIP 47MF	20% 25V
C5311	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5312	1-117-681-11	ELECT CHIP 100MF	20% 16V
C5313	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5317	1-126-204-11	ELECT CHIP 47MF	20% 16V
C5318	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5320	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5322	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5323	1-128-400-11	ELECT CHIP 47MF	20% 25V
C5326	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5327	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5328	1-117-681-11	ELECT CHIP 100MF	20% 16V
C5329	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5401	1-126-204-11	ELECT CHIP 47MF	20% 16V
C5402	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5403	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
C5404	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5405	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5406	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
C5407	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5408	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
C5409	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5410	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
C5411	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5413	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5414	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V

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Ref.No.	Part No.	Description	Remark
		<CONNECTOR>	
CN5001	1-580-057-11	PIN, CONNECTOR 4P	
CN5002	1-764-007-11	PIN, CONNECTOR (SMD) 12P	
CN5003 *	1-764-177-11	PIN, CONNECTOR (SMD)(1.5MM) 7P	
CN5006 *	1-580-056-21	PIN, CONNECTOR 3P	
CN5007	1-764-643-21	PIN, CONNECTOR (SMD) 11P	
CN5008	1-569-481-11	CONNECTOR, FPC 30P	
CN5009	1-580-055-21	PIN, CONNECTOR 2P	
CN5010	1-573-768-21	PIN, CONNECTOR (1.5MM) (SMD)5P	
CN5012 *	1-580-056-21	PIN, CONNECTOR (SMD) 3P	
CN5020	1-764-007-11	PIN, CONNECTOR (SMD) 12P	
CN5021	1-691-591-11	PIN, CONNECTOR (1.5MM) (SMD)8P	
CN5022	1-569-775-21	PIN, CONNECTOR 5P	
CN5023	1-691-591-11	PIN, CONNECTOR (1.5MM) (SMD)8P	
CN5024	1-760-388-11	CONNECTOR PIN (SMD) 9 PIN	
CN5201 *	1-764-829-11	CONNECTOR, FPC 24P	
CN5301 *	1-764-829-11	CONNECTOR, FPC 24P	
CN5302 *	1-764-829-11	CONNECTOR, FPC 24P	
		<DIODE>	
D5001	8-719-159-10	DIODE RD5.1SB-T2	
D5002	8-719-159-10	DIODE RD5.1SB-T2	
D5003	8-719-037-24	DIODE RD12SB3-T1	
D5004	8-719-037-24	DIODE RD12SB3-T1	
D5005	8-719-033-53	DIODE RD6.8SB2-T1	
D5006	8-719-988-62	DIODE 1SS355	
D5007	8-719-159-10	DIODE RD5.1SB-T2	
D5008	8-719-159-10	DIODE RD5.1SB-T2	
D5009	8-719-914-44	DIODE DAP202K	
D5010	8-719-045-55	DIODE SEC1201C	
D5011	8-719-045-55	DIODE SEC1201C	
		<FERRITE BEAD>	
FB5001	1-414-234-11	INDUCTOR CHIP 0UH	
FB5002	1-414-234-11	INDUCTOR CHIP 0UH	
FB5003	1-414-234-11	INDUCTOR CHIP 0UH	
FB5004	1-414-234-11	INDUCTOR CHIP 0UH	
FB5005	1-414-234-11	INDUCTOR CHIP 0UH	
FB5006	1-414-234-11	INDUCTOR CHIP 0UH	
FB5007	1-414-234-11	INDUCTOR CHIP 0UH	
FB5030	1-414-234-11	INDUCTOR CHIP 0UH	
FB5031	1-414-234-11	INDUCTOR CHIP 0UH	
FB5032	1-414-234-11	INDUCTOR CHIP 0UH	
FB5101	1-414-234-11	INDUCTOR CHIP 0UH	
FB5102	1-414-234-11	INDUCTOR CHIP 0UH	
FB5103	1-414-234-11	INDUCTOR CHIP 0UH	
FB5104	1-414-234-11	INDUCTOR CHIP 0UH	
FB5227	1-414-234-11	INDUCTOR CHIP 0UH	
FB5353	1-414-234-11	INDUCTOR CHIP 0UH	
FB5354	1-414-234-11	INDUCTOR CHIP 0UH	
		<FILTER>	
FL5001	1-239-400-11	FILTER, CHIP EMI	
FL5002	1-239-466-21	FILTER, EMI	
FL5003	1-239-466-21	FILTER, EMI	
FL5004	1-239-466-21	FILTER, EMI	
FL5005	1-239-466-21	FILTER, EMI	
FL5009	1-239-400-11	FILTER, CHIP EMI	
FL5010	1-239-400-11	FILTER, CHIP EMI	
FL5011	1-216-295-91	SHORT 0	
FL5012	1-239-400-11	FILTER, CHIP EMI	
FL5013	1-239-400-11	FILTER, CHIP EMI	
FL5014	1-239-400-11	FILTER, CHIP EMI	
FL5015	1-239-400-11	FILTER, CHIP EMI	
FL5016	1-239-400-11	FILTER, CHIP EMI	
FL5017	1-239-400-11	FILTER, CHIP EMI	
FL5018	1-239-400-11	FILTER, CHIP EMI	
FL5019	1-239-400-11	FILTER, CHIP EMI	
FL5021	1-239-466-21	FILTER, EMI	
		<IC>	
IC5001	8-759-285-52	IC PC74HC02D-T	
IC5002	8-759-259-77	IC PQ20VZ5U	
IC5003	8-759-082-58	IC TC7W08FU	
IC5004	8-759-351-63	IC TA7812F(TE16L)	
IC5005	8-759-480-10	IC HD64F3048F16	
IC5006	8-759-162-80	IC MM1170BFB	
IC5007	8-759-471-25	IC BR24CF16F	
IC5008	8-759-239-92	IC TC74HC07AF	
IC5009	8-759-471-25	IC BR24CF16F	
IC5011	8-759-237-59	IC TC74HC541AF(EL)	
IC5012	8-759-082-58	IC TC7W08FU	
IC5013	8-759-157-17	IC PQ05SZ1U	
IC5014	8-759-439-67	IC TC7W126FU(TE12R)	
IC5015	8-759-082-58	IC TC7W08FU	
IC5016	8-759-058-58	IC TC7S04FU(TE85R)	
IC5017	8-759-523-94	IC TC74VHC32FT(EL)	
IC5018	8-759-100-93	IC uPC393G2	
IC5101	8-759-064-36	IC MB88346BPFV	
IC5102	8-759-082-57	IC TC7W04FU	
IC5103	8-759-480-09	IC MB90096PF-G-133-BND	
IC5104	8-759-490-57	IC M52337SP	
IC5105	8-759-285-55	IC PC74HC08D-T	
IC5106	8-752-080-98	IC CXA2111R	
IC5107	8-759-082-57	IC TC7W04FU	
IC5211	8-752-080-99	IC CXA2112R	
IC5302	8-752-080-99	IC CXA2112R	
IC5305	8-752-080-99	IC CXA2112R	
IC5403	8-752-382-63	IC CXD2442Q	
IC5404	8-759-257-96	IC TC7S14FU(TE85R)	
		<COIL>	
L5001	1-410-377-31	INDUCTOR CHIP 4.7UH	
L5101	1-410-377-31	INDUCTOR CHIP 4.7UH	
L5201	1-410-377-31	INDUCTOR CHIP 4.7UH	
L5301	1-410-377-31	INDUCTOR CHIP 4.7UH	
L5302	1-410-377-31	INDUCTOR CHIP 4.7UH	
L5401	1-410-377-31	INDUCTOR CHIP 4.7UH	

Ref.No.	Part No.	Description	Remark
	<TRANSISTOR>		
Q5001	8-729-900-53	TRANSISTOR DTC114EK	
Q5002	8-729-101-07	TRANSISTOR 2SB798-DL	
Q5003	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q5101	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q5201	8-729-013-28	TRANSISTOR HN1B01FU-TE85R	
Q5203	8-729-013-28	TRANSISTOR HN1B01FU-TE85R	
Q5301	8-729-013-28	TRANSISTOR HN1B01FU-TE85R	
Q5302	8-729-013-28	TRANSISTOR HN1B01FU-TE85R	
Q5303	8-729-013-28	TRANSISTOR HN1B01FU-TE85R	
Q5304	8-729-013-28	TRANSISTOR HN1B01FU-TE85R	
	<RESISTOR>		
R5001	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R5002	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R5003	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5004	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5005	1-216-089-91	RES,CHIP 47K 5% 1/10W	
R5006	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5007	1-216-089-91	RES,CHIP 47K 5% 1/10W	
R5008	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5009	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5010	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5011	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5012	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5013	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5014	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5015	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5016	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5017	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5018	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5019	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5020	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R5021	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R5022	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R5023	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5024	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5025	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5026	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R5027	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R5028	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5029	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R5030	1-216-682-11	METAL CHIP 20K 0.50% 1/10W	
R5031	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5032	1-216-644-11	METAL CHIP 510 0.50% 1/10W	
R5033	1-216-673-11	METAL CHIP 8.2K 0.50% 1/10W	
R5034	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R5035	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R5036	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R5037	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R5038	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R5039	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5040	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R5041	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R5042	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R5043	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R5044	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R5045	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R5046	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R5048	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R5049	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R5050	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R5051	1-216-043-91	RES,CHIP 560 5% 1/10W	
R5052	1-216-043-91	RES,CHIP 560 5% 1/10W	
R5053	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5054	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5055	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5056	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R5057	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5058	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5060	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5061	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5062	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5063	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5064	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5065	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5066	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5067	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5068	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5069	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5070	1-216-295-91	SHORT 0	
R5071	1-216-295-91	SHORT 0	
R5072	1-216-295-91	SHORT 0	
R5073	1-216-295-91	SHORT 0	
R5074	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R5076	1-216-017-91	RES,CHIP 47 5% 1/10W	
R5077	1-216-295-91	SHORT 0	
R5078	1-216-295-91	SHORT 0	
R5079	1-216-037-00	RES,CHIP 330 5% 1/10W	
R5080	1-216-037-00	RES,CHIP 330 5% 1/10W	
R5081	1-216-037-00	RES,CHIP 330 5% 1/10W	
R5082	1-216-037-00	RES,CHIP 330 5% 1/10W	
R5083	1-216-037-00	RES,CHIP 330 5% 1/10W	
R5084	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R5085	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R5086	1-216-089-91	RES,CHIP 47K 5% 1/10W	
R5087	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5088	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R5089	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R5090	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R5092	1-216-295-91	SHORT 0	
R5094	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5095	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5096	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R5097	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R5098	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R5099	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R5100	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R5101	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5102	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5104	1-216-661-11	METAL CHIP 2.7K 0.50% 1/10W	
R5105	1-216-025-91	RES,CHIP 100 5% 1/10W	
R5118	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R5119	1-216-295-91	SHORT 0	

C

Ref.No.	Part No.	Description		Remark
R5121	1-216-664-11	METAL CHIP	3.6K	0.50% 1/10W
R5122	1-216-065-91	RES,CHIP	4.7K	5% 1/10W
R5123	1-216-053-00	RES,CHIP	1.5K	5% 1/10W
R5124	1-216-089-91	RES,CHIP	47K	5% 1/10W
R5129	1-216-017-91	RES,CHIP	47	5% 1/10W
R5131	1-216-009-00	RES,CHIP	22	5% 1/10W
R5134	1-216-009-00	RES,CHIP	22	5% 1/10W
R5137	1-216-009-00	RES,CHIP	22	5% 1/10W
R5142	1-216-025-91	RES,CHIP	100	5% 1/10W
R5143	1-216-025-91	RES,CHIP	100	5% 1/10W
R5144	1-216-025-91	RES,CHIP	100	5% 1/10W
R5145	1-216-647-11	METAL CHIP	680	0.50% 1/10W
R5146	1-216-647-11	METAL CHIP	680	0.50% 1/10W
R5147	1-216-647-11	METAL CHIP	680	0.50% 1/10W
R5148	1-216-025-91	RES,CHIP	100	5% 1/10W
R5149	1-216-295-91	SHORT	0	
R5150	1-216-009-00	RES,CHIP	22	5% 1/10W
R5151	1-216-009-00	RES,CHIP	22	5% 1/10W
R5152	1-216-009-00	RES,CHIP	22	5% 1/10W
R5153	1-216-073-00	RES,CHIP	10K	5% 1/10W
R5159	1-216-073-00	RES,CHIP	10K	5% 1/10W
R5160	1-216-009-00	RES,CHIP	22	5% 1/10W
R5161	1-216-009-00	RES,CHIP	22	5% 1/10W
R5162	1-216-009-00	RES,CHIP	22	5% 1/10W
R5164	1-216-065-91	RES,CHIP	4.7K	5% 1/10W
R5167	1-216-025-91	RES,CHIP	100	5% 1/10W
R5168	1-216-025-91	RES,CHIP	100	5% 1/10W
R5170	1-216-025-91	RES,CHIP	100	5% 1/10W
R5171	1-216-025-91	RES,CHIP	100	5% 1/10W
R5172	1-216-025-91	RES,CHIP	100	5% 1/10W
R5173	1-216-025-91	RES,CHIP	100	5% 1/10W
R5181	1-216-682-11	METAL CHIP	20K	0.50% 1/10W
R5182	1-216-025-91	RES,CHIP	100	5% 1/10W
R5183	1-216-025-91	RES,CHIP	100	5% 1/10W
R5184	1-216-025-91	RES,CHIP	100	5% 1/10W
R5185	1-216-693-11	METAL CHIP	56K	0.50% 1/10W
R5186	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R5187	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R5188	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R5189	1-216-051-00	RES,CHIP	1.2K	5% 1/10W
R5190	1-216-051-00	RES,CHIP	1.2K	5% 1/10W
R5191	1-216-051-00	RES,CHIP	1.2K	5% 1/10W
R5192	1-216-063-91	RES,CHIP	3.9K	5% 1/10W
R5193	1-216-063-91	RES,CHIP	3.9K	5% 1/10W
R5194	1-216-063-91	RES,CHIP	3.9K	5% 1/10W
R5195	1-216-065-91	RES,CHIP	4.7K	5% 1/10W
R5196	1-216-065-91	RES,CHIP	4.7K	5% 1/10W
R5197	1-216-065-91	RES,CHIP	4.7K	5% 1/10W
R5198	1-216-073-00	RES,CHIP	10K	5% 1/10W
R5199	1-216-295-91	SHORT	0	
R5200	1-216-025-91	RES,CHIP	100	5% 1/10W
R5201	1-216-025-91	RES,CHIP	100	5% 1/10W
R5202	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R5203	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R5204	1-216-298-00	RES,CHIP	2.2	5% 1/10W
R5205	1-216-671-11	METAL CHIP	6.8K	0.50% 1/10W
R5207	1-216-298-00	RES,CHIP	2.2	5% 1/10W
R5208	1-216-295-91	SHORT	0	
R5209	1-216-669-11	METAL CHIP	5.6K	0.50% 1/10W
R5210	1-216-073-00	RES,CHIP	10K	5% 1/10W
R5256	1-216-073-00	RES,CHIP	10K	5% 1/10W
R5261	1-216-685-11	METAL CHIP	27K	0.50% 1/10W
R5262	1-216-001-00	RES,CHIP	10	5% 1/10W
R5263	1-216-001-00	RES,CHIP	10	5% 1/10W
R5264	1-216-001-00	RES,CHIP	10	5% 1/10W
R5265	1-216-001-00	RES,CHIP	10	5% 1/10W
R5266	1-216-001-00	RES,CHIP	10	5% 1/10W
R5267	1-216-001-00	RES,CHIP	10	5% 1/10W
R5274	1-216-025-91	RES,CHIP	100	5% 1/10W
R5301	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R5302	1-216-298-00	RES,CHIP	2.2	5% 1/10W
R5303	1-216-073-00	RES,CHIP	10K	5% 1/10W
R5304	1-216-298-00	RES,CHIP	2.2	5% 1/10W
R5305	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R5306	1-216-025-91	RES,CHIP	100	5% 1/10W
R5307	1-216-295-91	SHORT	0	
R5308	1-216-685-11	METAL CHIP	27K	0.50% 1/10W
R5309	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R5310	1-216-298-00	RES,CHIP	2.2	5% 1/10W
R5311	1-216-298-00	RES,CHIP	2.2	5% 1/10W
R5312	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R5313	1-216-025-91	RES,CHIP	100	5% 1/10W
R5314	1-216-295-91	SHORT	0	
R5315	1-216-001-00	RES,CHIP	10	5% 1/10W
R5316	1-216-001-00	RES,CHIP	10	5% 1/10W
R5317	1-216-001-00	RES,CHIP	10	5% 1/10W
R5318	1-216-001-00	RES,CHIP	10	5% 1/10W
R5319	1-216-001-00	RES,CHIP	10	5% 1/10W
R5320	1-216-001-00	RES,CHIP	10	5% 1/10W
R5321	1-216-025-91	RES,CHIP	100	5% 1/10W
R5322	1-216-073-00	RES,CHIP	10K	5% 1/10W
R5323	1-216-073-00	RES,CHIP	10K	5% 1/10W
R5326	1-216-073-00	RES,CHIP	10K	5% 1/10W
R5331	1-216-685-11	METAL CHIP	27K	0.50% 1/10W
R5338	1-216-001-00	RES,CHIP	10	5% 1/10W
R5339	1-216-001-00	RES,CHIP	10	5% 1/10W
R5340	1-216-001-00	RES,CHIP	10	5% 1/10W
R5341	1-216-001-00	RES,CHIP	10	5% 1/10W
R5342	1-216-001-00	RES,CHIP	10	5% 1/10W
R5343	1-216-001-00	RES,CHIP	10	5% 1/10W
R5344	1-216-025-91	RES,CHIP	100	5% 1/10W
R5403	1-216-295-91	SHORT	0	
R5405	1-216-025-91	RES,CHIP	100	5% 1/10W
R5408	1-216-037-00	RES,CHIP	330	5% 1/10W
R5410	1-216-295-91	SHORT	0	
R5411	1-216-037-00	RES,CHIP	330	5% 1/10W
R5412	1-216-295-91	SHORT	0	
R5414	1-216-025-91	RES,CHIP	100	5% 1/10W
R5415	1-216-073-00	RES,CHIP	10K	5% 1/10W
R5417	1-216-017-91	RES,CHIP	47	5% 1/10W
R5418	1-216-025-91	RES,CHIP	100	5% 1/10W
R5419	1-216-025-91	RES,CHIP	100	5% 1/10W
R5425	1-216-017-91	RES,CHIP	47	5% 1/10W
R5501	1-216-073-00	RES,CHIP	10K	5% 1/10W
R5502	1-216-624-11	METAL CHIP	75	0.50% 1/10W

Ref.No.	Part No.	Description			Remark
R5503	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R5504	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R5505	1-216-295-91	SHORT	0		
R5506	1-216-295-91	SHORT	0		
R5507	1-216-295-91	SHORT	0		
R5508	1-216-049-91	RES,CHIP	1K	5%	1/10W
R5511	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5512	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5513	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R5514	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R5515	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R5516	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R5517	1-220-297-11	RES,CHIP	3.3K	5%	1/2W
R5518	1-220-297-11	RES,CHIP	3.3K	5%	1/2W
R5519	1-220-297-11	RES,CHIP	3.3K	5%	1/2W
R5520	1-220-297-11	RES,CHIP	3.3K	5%	1/2W
R5521	1-218-369-11	RES,CHIP	2.2K	5%	1/2W
R5522	1-218-369-11	RES,CHIP	2.2K	5%	1/2W
R5523	1-218-369-11	RES,CHIP	2.2K	5%	1/2W
R5524	1-218-369-11	RES,CHIP	2.2K	5%	1/2W
R5525	1-218-369-11	RES,CHIP	2.2K	5%	1/2W
R5526	1-218-369-11	RES,CHIP	2.2K	5%	1/2W
R5528	1-249-417-11	RES, CARBON (SMALL)	1K	5%	1/4W
R5608	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R5609	1-216-025-91	RES,CHIP	100	5%	1/10W
R5610	1-216-025-91	RES,CHIP	100	5%	1/10W
R5611	1-216-025-91	RES,CHIP	100	5%	1/10W
R5612	1-216-025-91	RES,CHIP	100	5%	1/10W
R5613	1-216-650-11	METAL CHIP	910	0.50%	1/10W
R5614	1-216-650-11	METAL CHIP	910	0.50%	1/10W
R5615	1-216-650-11	METAL CHIP	910	0.50%	1/10W
		<RESISTOR BLOCK>			
RB5101	1-233-576-11	RES, CHIP NETWORK	100		
RB5106	1-236-400-11	NETWORK, RES	100		
RB5401	1-233-576-11	RES, CHIP NETWORK	100		
RB5402	1-233-576-11	RES, CHIP NETWORK	100		
RB5403	1-233-576-11	RES, CHIP NETWORK	100		
		<THERMISTOR>			
TH5001	1-808-656-11	THERMISTOR			
TH5002	1-806-715-11	THERMISTOR			
		<CRYSTAL>			
X5001	1-767-347-11	VIBRATOR, CRYSTAL			

****

* 1-668-124-11 V BOARD
****

<CONNECTOR>

CN4201 * 1-564-517-11 PLUG, CONNECTOR 2P

<SWITCH>

S4201 1-570-245-11 SWITCH, MICRO

****

* 1-668-125-11 U BOARD
****

<CONNECTOR>

CN4101 1-564-517-11 PLUG, CONNECTOR 2P

<SWITCH>

S4101 1-570-245-11 SWITCH, MICRO

****

* A-1375-172-A H BOARD, COMPLETE
****

<CONNECTOR>

CN6001 1-764-007-11 PIN, CONNECTOR (SMD) 12P
CN6002 1-580-789-21 PIN, CONNECTOR (SMD) 6P
CN6003 1-580-057-11 PIN, CONNECTOR 4P
CN6004 1-580-055-21 PIN, CONNECTOR 2P

<DIODE>

D6001 8-719-914-43 DIODE DAN202K
D6002 8-719-914-44 DIODE DAP202K
D6003 8-719-045-61 DIODE SEC1901C
D6004 8-719-045-61 DIODE SEC1901C
D6005 8-719-045-55 DIODE SEC1201C
D6006 8-719-045-60 DIODE SEC1401C
D6007 8-719-045-53 DIODE SEC1801C
D6008 8-719-914-43 DIODE DAN202K
D6009 8-719-914-43 DIODE DAN202K
D6010 8-719-914-43 DIODE DAN202K
D6011 8-719-914-44 DIODE DAP202K
D6012 8-719-914-44 DIODE DAP202K
D6013 8-719-914-44 DIODE DAP202K
D6014 8-719-045-60 DIODE SEC1401C
D6015 8-719-045-53 DIODE SEC1801C
D6016 8-719-045-53 DIODE SEC1801C
D6017 8-719-045-53 DIODE SEC1801C
D6018 8-719-045-53 DIODE SEC1801C
D6019 8-719-045-53 DIODE SEC1801C
D6020 8-719-045-53 DIODE SEC1801C
D6021 8-719-045-53 DIODE SEC1801C
D6022 8-719-045-53 DIODE SEC1801C
D6023 8-719-045-53 DIODE SEC1801C
D6024 8-719-045-53 DIODE SEC1801C
D6025 8-719-045-53 DIODE SEC1801C
D6026 8-719-045-53 DIODE SEC1801C

Ref.No.	Part No.	Description			Remark
D6027	8-719-045-53	DIODE SEC1801C			
D6028	8-719-045-53	DIODE SEC1801C			
		<TRANSISTOR>			
Q6001	8-729-027-38	TRANSISTOR DTA144EKA-T146			
Q6002	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q6003	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q6004	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q6005	8-729-230-49	TRANSISTOR 2SC2712-YG			
		<RESISTOR>			
R6001	1-216-083-00	RES,CHIP	27K	5%	1/10W
R6002	1-216-075-00	RES,CHIP	12K	5%	1/10W
R6003	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R6004	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R6005	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R6006	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R6007	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R6008	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R6009	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6010	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R6011	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R6012	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R6013	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R6014	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R6015	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R6016	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6017	1-216-049-91	RES,CHIP	1K	5%	1/10W
R6018	1-216-037-00	RES,CHIP	330	5%	1/10W
R6019	1-216-075-00	RES,CHIP	12K	5%	1/10W
R6020	1-216-033-00	RES,CHIP	220	5%	1/10W
R6021	1-216-039-00	RES,CHIP	390	5%	1/10W
R6022	1-216-039-00	RES,CHIP	390	5%	1/10W
R6023	1-216-039-00	RES,CHIP	390	5%	1/10W
R6024	1-216-039-00	RES,CHIP	390	5%	1/10W
R6025	1-216-039-00	RES,CHIP	390	5%	1/10W
R6026	1-216-039-00	RES,CHIP	390	5%	1/10W
R6027	1-216-039-00	RES,CHIP	390	5%	1/10W
R6028	1-216-039-00	RES,CHIP	390	5%	1/10W
R6029	1-216-039-00	RES,CHIP	390	5%	1/10W
R6030	1-216-039-00	RES,CHIP	390	5%	1/10W
R6031	1-216-039-00	RES,CHIP	390	5%	1/10W
R6032	1-216-039-00	RES,CHIP	390	5%	1/10W
R6033	1-216-039-00	RES,CHIP	390	5%	1/10W
R6034	1-216-039-00	RES,CHIP	390	5%	1/10W
R6035	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R6036	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R6037	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R6038	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
		<SWITCH>			
S6001	1-692-453-11	SWITCH, KEY BOARD			
S6002	1-692-453-11	SWITCH, KEY BOARD			
S6003	1-692-453-11	SWITCH, KEY BOARD			
S6004	1-692-453-11	SWITCH, KEY BOARD			
S6005	1-692-453-11	SWITCH, KEY BOARD			
S6006	1-692-453-11	SWITCH, KEY BOARD			
S6007	1-692-453-11	SWITCH, KEY BOARD			
S6008	1-692-453-11	SWITCH, KEY BOARD			
S6009	1-692-453-11	SWITCH, KEY BOARD			
S6010	1-692-453-11	SWITCH, KEY BOARD			
S6011	1-692-453-11	SWITCH, KEY BOARD			
S6012	1-692-453-11	SWITCH, KEY BOARD			
S6013	1-692-453-11	SWITCH, KEY BOARD			
S6014	1-692-453-11	SWITCH, KEY BOARD			
**********					
	* 1-668-126-11	NF BOARD			
		**********			
		<CAPACITOR>			
C4007	1-124-589-11	ELECT	47MF	20%	10V
		<CONNECTOR>			
CN4001	* 1-564-518-11	PLUG, CONNECTOR 3P			
		<IC>			
IC4001	8-749-011-03	IC GP1U26X			
		<RESISTOR>			
R4001	1-216-017-91	RES,CHIP	47	5%	1/10W
R4002	1-216-025-91	RES,CHIP	100	5%	1/10W
**********					
	* 1-668-127-11	NR BOARD			
		**********			
		<CAPACITOR>			
C4801	1-124-589-11	ELECT	47MF	20%	10V
		<CONNECTOR>			
CN4801	* 1-564-518-11	PLUG, CONNECTOR 3P			
		<IC>			
IC4801	8-749-011-03	IC GP1U26X			
		<RESISTOR>			
R4801	1-216-017-91	RES,CHIP	47	5%	1/10W
R4802	1-216-025-91	RES,CHIP	100	5%	1/10W
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BB BOARD
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<CAPACITOR>

Ref.No.	Part No.	Description			Remark
C3001	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3002	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3003	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3004	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3005	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3006	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3007	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3008	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3009	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3010	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3011	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3012	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3013	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3014	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3015	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3016	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3017	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3018	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3019	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3020	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3021	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3022	1-115-156-11	CERAMIC	1MF		10V
C3023	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3024	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3025	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3026	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3027	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3028	1-110-501-11	CERAMIC CHIP	0.33MF	10%	16V
C3029	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3030	1-164-730-11	CERAMIC CHIP	0.0012MF	10%	50V
C3031	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C3032	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3033	1-107-498-11	FILM	0.0022MF	2%	50V
C3034	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3035	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C3036	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3038	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3039	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3040	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3041	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3042	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3044	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3046	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3047	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3049	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3051	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3052	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3053	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3054	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3055	1-115-156-11	CERAMIC	1MF		10V
C3056	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C3057	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3059	1-107-498-11	FILM	0.0022MF	2%	50V
C3060	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3061	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C3062	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3063	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3064	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3065	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3066	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3067	1-115-156-11	CERAMIC	1MF		10V
C3068	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C3069	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3071	1-107-498-11	FILM	0.0022MF	2%	50V
C3072	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3073	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C3074	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3078	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3079	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3080	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3081	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3082	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3083	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3084	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3085	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3087	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3088	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3089	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3090	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3091	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3092	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C3093	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C3098	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3099	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3100	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3101	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3103	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3104	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3105	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3106	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3107	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3114	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3115	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3116	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3117	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3118	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3119	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3121	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3122	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3123	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3124	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3125	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3126	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3129	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3130	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3131	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3132	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3133	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3134	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3135	1-164-156-11	CERAMIC CHIP	0.1MF		25V

BB

Ref.No.	Part No.	Description	Remark
C3136	1-164-156-11	CERAMIC CHIP 0.1MF	25V
C3137	1-164-156-11	CERAMIC CHIP 0.1MF	25V
C3138	1-164-156-11	CERAMIC CHIP 0.1MF	25V
C3139	1-164-156-11	CERAMIC CHIP 0.1MF	25V
C3140	1-164-156-11	CERAMIC CHIP 0.1MF	25V
C3143	1-164-156-11	CERAMIC CHIP 0.1MF	25V
C3144	1-126-394-11	ELECT CHIP 10MF 20%	16V
C3145	1-126-394-11	ELECT CHIP 10MF 20%	16V
C3147	1-164-156-11	CERAMIC CHIP 0.1MF	25V
C3148	1-164-156-11	CERAMIC CHIP 0.1MF	25V
C3151	1-164-156-11	CERAMIC CHIP 0.1MF	25V
C3152	1-164-156-11	CERAMIC CHIP 0.1MF	25V
C3153	1-164-156-11	CERAMIC CHIP 0.1MF	25V
C3154	1-164-156-11	CERAMIC CHIP 0.1MF	25V
C3155	1-164-156-11	CERAMIC CHIP 0.1MF	25V
C3156	1-164-156-11	CERAMIC CHIP 0.1MF	25V
C3157	1-164-156-11	CERAMIC CHIP 0.1MF	25V
C3164	1-164-156-11	CERAMIC CHIP 0.1MF	25V
C3166	1-164-156-11	CERAMIC CHIP 0.1MF	25V
C3186	1-164-156-11	CERAMIC CHIP 0.1MF	25V
		<CONNECTOR>	
CN3001	1-760-388-11	PIN, CONNECTOR (SMD)9P	
CN3004	1-764-007-11	PIN, CONNECTOR (SMD)12P	
CN3005	1-573-806-21	PIN, CONNECTOR (1.5MM)(SMD)6P	
		<DIODE>	
D3001	8-719-988-62	DIODE 1SS355	
D3002	8-719-988-62	DIODE 1SS355	
D3003	8-719-988-62	DIODE 1SS355	
D3004	8-719-988-62	DIODE 1SS355	
D3005	8-719-988-62	DIODE 1SS355	
D3006	8-719-988-62	DIODE 1SS355	
D3007	8-719-988-62	DIODE 1SS355	
D3011	8-719-988-62	DIODE 1SS355	
D3012	8-719-985-01	DIODE LM385M-1.2	
		<FILTER>	
FL3001	1-239-898-22	FILTER, EMI (SMD)	
FL3002	1-239-898-22	FILTER, EMI (SMD)	
FL3003	1-239-897-12	FILTER, EMI (SMD)	
FL3006	1-239-897-12	FILTER, EMI (SMD)	
FL3007	1-239-897-12	FILTER, EMI (SMD)	
FL3008	1-239-897-12	FILTER, EMI (SMD)	
FL3009	1-239-897-12	FILTER, EMI (SMD)	
FL3010	1-239-897-12	FILTER, EMI (SMD)	
		<IC>	
IC3002	8-759-477-86	IC UPD485506G5-25-7JF-E2	
IC3003	8-759-473-74	IC SN74CBTD3306PW-E20	
IC3005	8-759-475-53	IC TC74LCX541FT (EL)	
IC3006	8-759-444-10	IC SN74ABT574PW-E05	
IC3007	8-759-464-43	IC CDC339NS	
IC3009	8-759-369-85	IC BT121KPJ80	
IC3014	8-759-473-74	IC SN74CBTD3306PW-E20	
IC3016	8-759-477-86	IC UPD485506G5-25-7JF-E2	
IC3017	8-752-071-69	IC CXA3026Q	
IC3020	8-752-071-69	IC CXA3026Q	
IC3021	8-759-183-52	IC TL431CPK-E1	
IC3022	8-759-473-74	IC SN74CBTD3306PW-E20	
IC3024	8-759-477-86	IC UPD485506G5-25-7JF-E2	
IC3027	8-759-473-74	IC SN74CBTD3306PW-E20	
IC3031	8-759-183-52	IC TL431CPK-E1	
IC3032	8-759-434-15	IC HM5283206FP-12	
IC3034	8-759-185-25	IC TC74HCT86AF (EL)	
IC3035	8-759-382-88	IC SN74ABT541PW-E05	
IC3037	8-759-434-15	IC HM5283206FP-12	
IC3039	8-759-434-15	IC HM5283206FP-12	
IC3041	8-759-510-71	IC BA10358F-E2	
		<RESISTOR>	
R3001	1-216-815-11	RES, CHIP 330 5%	1/16W
R3002	1-219-365-11	CONDUCTOR, CHIP 0	
R3003	1-219-365-11	CONDUCTOR, CHIP 0	
R3004	1-216-017-91	RES, CHIP 47 5%	1/10W
R3005	1-216-801-11	RES, CHIP 22 5%	1/16W
R3006	1-216-815-11	RES, CHIP 330 5%	1/16W
R3007	1-219-365-11	CONDUCTOR, CHIP 0	
R3008	1-216-815-11	RES, CHIP 330 5%	1/16W
R3009	1-219-365-11	CONDUCTOR, CHIP 0	
R3010	1-216-815-11	RES, CHIP 330 5%	1/16W
R3011	1-219-365-11	CONDUCTOR, CHIP 0	
R3012	1-216-815-11	RES, CHIP 330 5%	1/16W
R3013	1-219-365-11	CONDUCTOR, CHIP 0	
R3014	1-216-815-11	RES, CHIP 330 5%	1/16W
R3015	1-216-829-11	RES, CHIP 4.7K 5%	1/16W
R3017	1-218-697-11	METAL CHIP 1.6K 0.50%	1/16W
R3018	1-216-663-11	METAL CHIP 3.3K 0.50%	1/10W
R3019	1-216-017-91	RES, CHIP 47 5%	1/10W
R3020	1-216-801-11	RES, CHIP 22 5%	1/16W
R3022	1-216-648-11	METAL CHIP 750 0.50%	1/10W
R3023	1-216-648-11	METAL CHIP 750 0.50%	1/10W
R3024	1-216-624-11	METAL CHIP 75 0.50%	1/10W
R3026	1-216-017-91	RES, CHIP 47 5%	1/10W
R3028	1-216-648-11	METAL CHIP 750 0.50%	1/10W
R3029	1-216-648-11	METAL CHIP 750 0.50%	1/10W
R3030	1-216-624-11	METAL CHIP 75 0.50%	1/10W
R3031	1-216-829-11	RES, CHIP 4.7K 5%	1/16W
R3032	1-216-801-11	RES, CHIP 22 5%	1/16W
R3036	1-216-017-91	RES, CHIP 47 5%	1/10W
R3038	1-216-648-11	METAL CHIP 750 0.50%	1/10W
R3039	1-216-648-11	METAL CHIP 750 0.50%	1/10W
R3040	1-216-624-11	METAL CHIP 75 0.50%	1/10W
R3043	1-216-801-11	RES, CHIP 22 5%	1/16W
R3044	1-216-801-11	RES, CHIP 22 5%	1/16W
R3045	1-218-707-11	METAL CHIP 4.3K 0.50%	1/16W
R3047	1-216-801-11	RES, CHIP 22 5%	1/16W
R3048	1-216-821-11	RES, CHIP 1K 5%	1/16W
R3049	1-216-821-11	RES, CHIP 1K 5%	1/16W
R3052	1-216-624-11	METAL CHIP 75 0.50%	1/10W
R3053	1-216-624-11	METAL CHIP 75 0.50%	1/10W

Ref.No.	Part No.	Description			Remark
R3054	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R3055	1-216-821-11	RES, CHIP	1K	5%	1/16W
R3056	1-218-648-11	METAL, CHIP	15	0.50%	1/16W
R3059	1-216-821-11	RES, CHIP	1K	5%	1/16W
R3060	1-216-821-11	RES, CHIP	1K	5%	1/16W
R3061	1-216-017-91	RES, CHIP	47	5%	1/10W
R3062	1-216-017-91	RES, CHIP	47	5%	1/10W
R3063	1-216-017-91	RES, CHIP	47	5%	1/10W
R3064	1-216-017-91	RES, CHIP	47	5%	1/10W
R3065	1-216-017-91	RES, CHIP	47	5%	1/10W
R3066	1-216-801-11	RES, CHIP	22	5%	1/16W
R3067	1-216-821-11	RES, CHIP	1K	5%	1/16W
R3068	1-216-845-11	RES, CHIP	100K	5%	1/16W
R3069	1-216-809-11	RES, CHIP	100	5%	1/16W
R3070	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R3076	1-216-821-11	RES, CHIP	1K	5%	1/16W
R3077	1-216-821-11	RES, CHIP	1K	5%	1/16W
R3080	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R3081	1-216-801-11	RES, CHIP	22	5%	1/16W
R3082	1-216-833-11	RES, CHIP	10K	5%	1/16W
R3083	1-216-821-11	RES, CHIP	1K	5%	1/16W
R3084	1-216-821-11	RES, CHIP	1K	5%	1/16W
R3085	1-216-833-11	RES, CHIP	10K	5%	1/16W
R3086	1-216-833-11	RES, CHIP	10K	5%	1/16W
R3093	1-216-821-11	RES, CHIP	1K	5%	1/16W
R3094	1-216-821-11	RES, CHIP	1K	5%	1/16W
R3098	1-216-821-11	RES, CHIP	1K	5%	1/16W
R3099	1-216-833-11	RES, CHIP	10K	5%	1/16W
R3105	1-216-017-91	RES, CHIP	47	5%	1/10W
R3106	1-216-017-91	RES, CHIP	47	5%	1/10W
R3107	1-216-017-91	RES, CHIP	47	5%	1/10W
R3108	1-216-809-11	RES, CHIP	100	5%	1/16W
R3116	1-216-017-91	RES, CHIP	47	5%	1/10W
R3117	1-216-017-91	RES, CHIP	47	5%	1/10W
R3122	1-216-017-91	RES, CHIP	47	5%	1/10W
R3123	1-216-017-91	RES, CHIP	47	5%	1/10W
R3124	1-216-809-11	RES, CHIP	100	5%	1/16W
R3125	1-216-821-11	RES, CHIP	1K	5%	1/16W
R3126	1-216-017-91	RES, CHIP	47	5%	1/10W
R3130	1-216-833-11	RES, CHIP	10K	5%	1/16W
R3133	1-216-017-91	RES, CHIP	47	5%	1/10W
R3134	1-219-365-11	CONDUCTOR, CHIP	0		

<RESISTOR BLOCK>

RA3001	1-236-908-11	RES, CHIP NETWORK	10K
RA3002	1-236-908-11	RES, CHIP NETWORK	10K
RA3003	1-236-908-11	RES, CHIP NETWORK	10K
RA3004	1-236-908-11	RES, CHIP NETWORK	10K
RA3005	1-233-576-11	RES, CHIP NETWORK	100
RA3006	1-233-576-11	RES, CHIP NETWORK	100
RA3007	1-236-908-11	RES, CHIP NETWORK	10K
RA3008	1-236-908-11	RES, CHIP NETWORK	10K
RA3009	1-233-576-11	RES, CHIP NETWORK	100
RA3010	1-233-576-11	RES, CHIP NETWORK	100
RA3011	1-233-576-11	RES, CHIP NETWORK	100
RA3012	1-233-576-11	RES, CHIP NETWORK	100
RA3013	1-236-908-11	RES, CHIP NETWORK	10K
RA3014	1-236-908-11	RES, CHIP NETWORK	10K
RA3015	1-236-908-11	RES, CHIP NETWORK	10K
RA3016	1-236-908-11	RES, CHIP NETWORK	10K
RA3017	1-236-908-11	RES, CHIP NETWORK	10K
RA3018	1-236-908-11	RES, CHIP NETWORK	10K
RA3019	1-236-908-11	RES, CHIP NETWORK	10K
RA3020	1-236-908-11	RES, CHIP NETWORK	10K
RA3021	1-233-576-11	RES, CHIP NETWORK	100
RA3022	1-233-576-11	RES, CHIP NETWORK	100
RA3023	1-233-576-11	RES, CHIP NETWORK	100
RA3024	1-233-576-11	RES, CHIP NETWORK	100
RA3033	1-233-576-11	RES, CHIP NETWORK	100
RA3034	1-233-576-11	RES, CHIP NETWORK	100
RA3035	1-233-576-11	RES, CHIP NETWORK	100
RA3040	1-233-576-11	RES, CHIP NETWORK	100
RA3041	1-236-908-11	RES, CHIP NETWORK	10K
RA3042	1-236-908-11	RES, CHIP NETWORK	10K
RA3043	1-236-908-11	RES, CHIP NETWORK	10K
RA3044	1-236-908-11	RES, CHIP NETWORK	10K
RA3045	1-236-908-11	RES, CHIP NETWORK	10K
RA3046	1-236-908-11	RES, CHIP NETWORK	10K

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Ref.No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
⚠	1-468-286-11	SUPPLY BLOCK, POWER	
	1-475-689-21	CONVERTER UNIT, SCAN (BB BOARD)	
	1-500-249-11	BEAD, FERRITE (CASE)	
	1-504-847-11	SPEAKER (2.8CM)	
	1-505-282-11	SPEAKER (057F006)	
⚠	1-526-954-11	INLET, AC	
	1-758-156-11	OPTICAL UNIT	
	1-763-069-11	FAN, DC	
	1-763-070-11	FAN, DC	
	1-763-101-11	FAN, DC	
		**********	
		ACCESSORIES AND PACKING MATERIALS	
		**********	
*	X-4035-430-1	COVER ASSY, FRONT	
	1-475-735-11	REMOTE COMMANDER (RM-PJM600)	(S600E/S600M)
	1-475-735-21	REMOTE COMMANDER (RM-PJM600)	(S600U)
⚠	1-557-377-11	CORD, POWER (3 CORE) (10A/125V)	(S600U)
	1-575-334-11	CORD, CONNECTION (S600U/S600M)	
	1-774-626-11	ADAPTOR, CONVERSION	
⚠	1-777-649-11	CORD, POWER (10A/250V) (S600E)	
	1-777-743-11	CABLE ASSY(15PDSUBX2CONNECTOR)	
⚠	1-782-929-11	CORD, POWER SUPPLY (BS 3P)	(10A/250V) (S600M)
	3-862-351-12	INSTALLATION MANUAL FOR DEALERS	(E/F/S)
	3-862-351-22	INSTALLATION MANUAL FOR DEALERS	(G/I) (S600E)
	3-862-351-32	INSTALLATION MANUAL FOR DEALERS	(C2) (S600M)
	3-862-497-11	MANUAL, INSTRUCTION (E/F/S)	
	3-862-497-21	MANUAL, INSTRUCTION (G/I) (S600E)	
	3-862-497-31	MANUAL, INSTRUCTION (C2) (S600M)	
	4-063-684-01	FILTER	
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

RM-PJM600

Ref.No.	Part No.	Description	Remark
	1-475-735-11	REMOTE COMMANDER (S600E/S600M)	
	1-475-735-21	REMOTE COMMANDER (S600U)	
	9-880-535-01	BATTERY COVER (FOR RM-PJM600)	

IFB-X600E

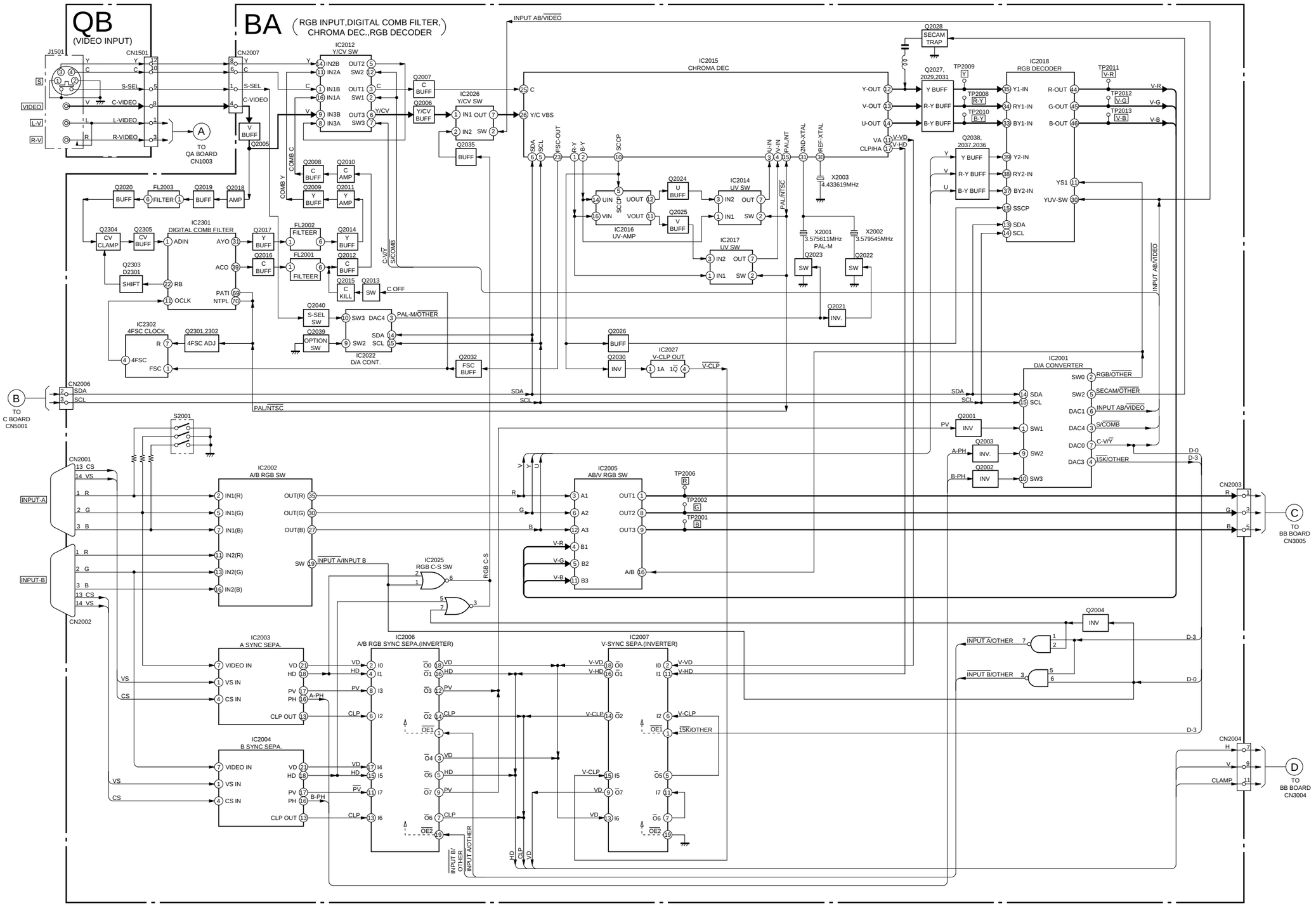
Ref.No.	Part No.	Description	Remark
*	A-1275-152-A	QB BOARD, COMPLETE	
		**********	
		<CONNECTOR>	
CN1501 *	1-766-383-11	PIN, CONNECTOR (1.5MM)(SMD)12P	
		<JACK>	
J1501	1-770-053-11	TERMINAL BLOCK, S(LIGHT ANGLE)	
		**********	
		ACCESSORIES AND PACKING MATERIALS	
		**********	
	1-575-334-11	CORD, CONNECTION	
	3-862-502-11	INSTALLATION MANUAL (E/F/G/S/I)	

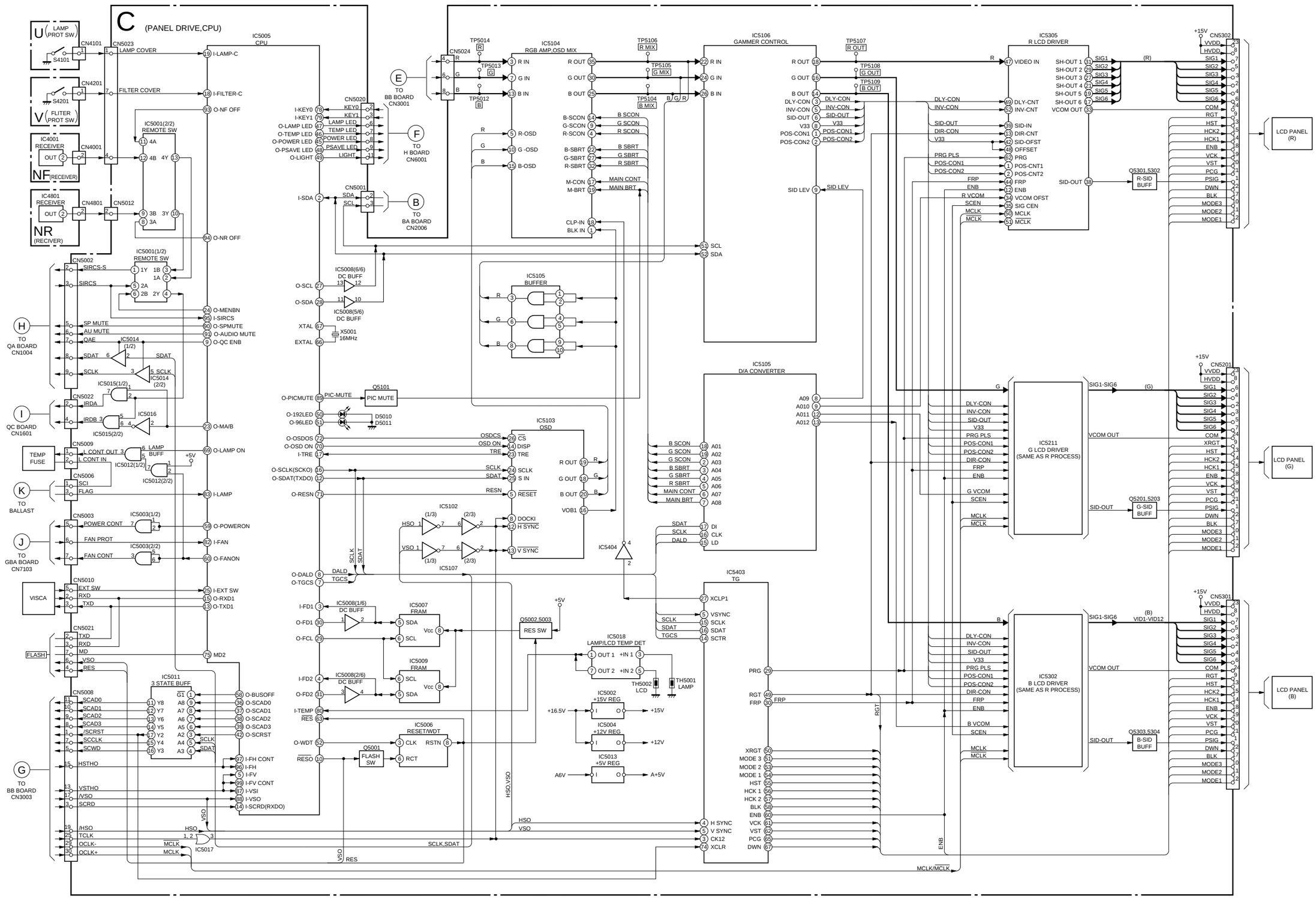
PSS-600

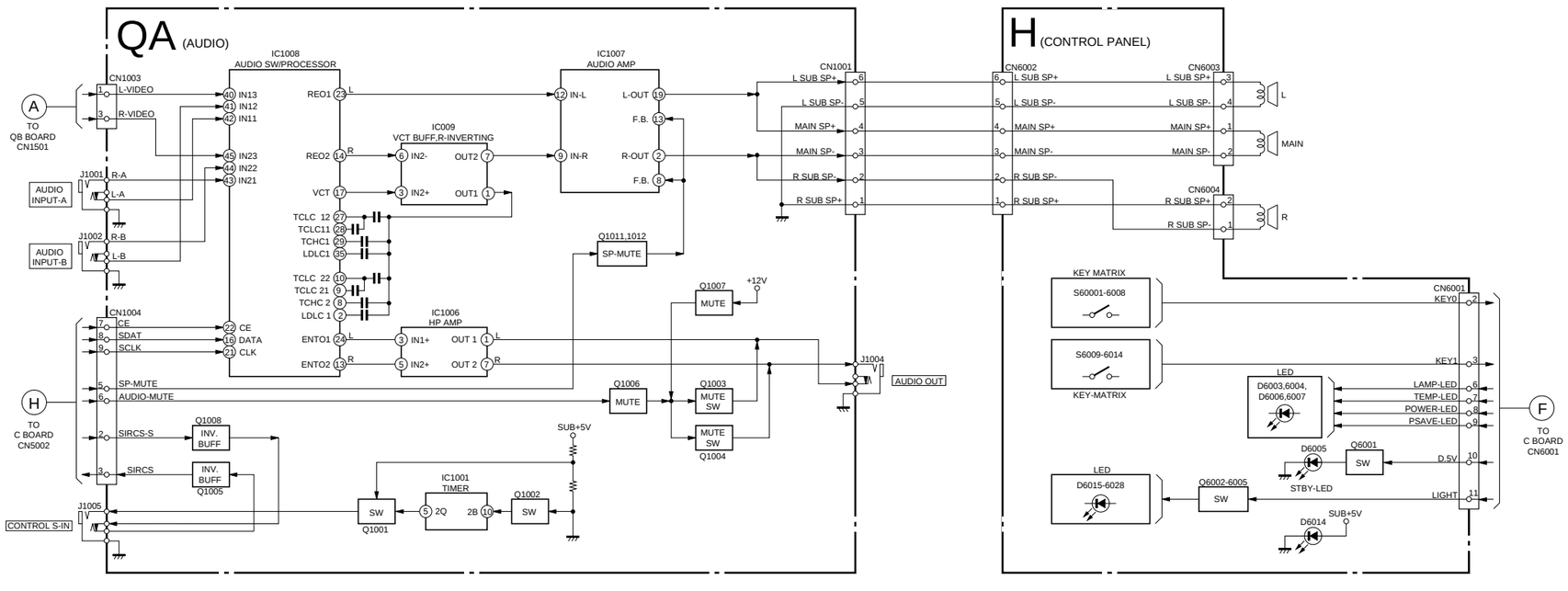
Ref.No.	Part No.	Description	Remark
		ACCESSORIES AND PACKING MATERIALS	
		**********	
	3-862-500-01	INSTALLATION MANUAL (J/E/F/G/S/I/C2)	
	4-047-742-01	NUT (M8), HEXAGON	
	4-047-743-01	WASHER, TOOTHED LOCK	
	4-047-744-01	PIN	
	4-047-746-01	BOLT (M8X50), HEXAGON	
	4-047-748-01	WASHER (M8), FLAT	
	4-047-765-01	SCREW (M4X6), +P	
	4-047-903-01	PIN, SNAP	
	4-063-982-01	BOLT (M5), HEXAGON HEAD	
	4-063-983-01	WASHER (M5), PLAIN	
	4-063-984-01	WASHER (M5), LOCK SPRING	
*	4-063-985-01	BRACKET, PROJECTOR	

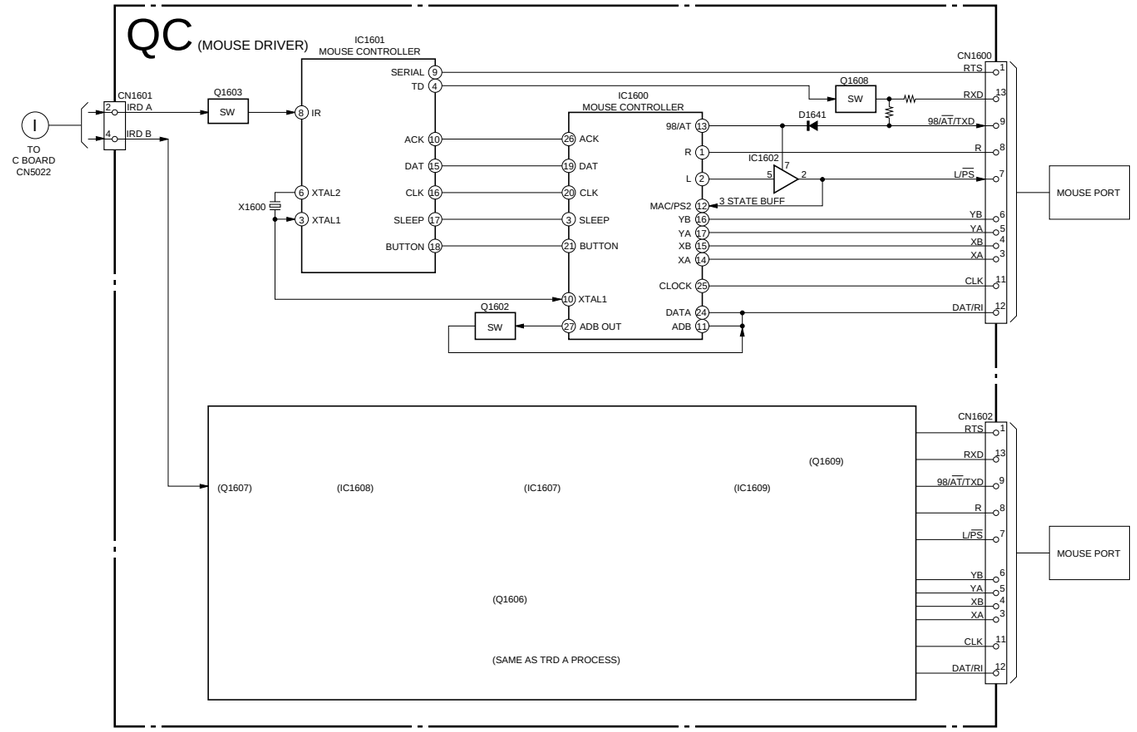
http://getMANUAL.com

SECTION 7
BLOCK DIAGRAMS




C
(PANEL DRIVE,CPU)
U LAMP PROT SW
V FLITER PROT SW
NF (RECEIVER)
NR (RECIVER)
IC5005 CPU
IC5104 RGB AMP,OSD MIX
IC5106 GAMMER CONTROL
IC5305 R LCD DRIVER
IC5211 G LCD DRIVER (SAME AS R PROCESS)
IC5302 B LCD DRIVER (SAME AS R PROCESS)
IC5105 BUFFER
IC5105 D/A CONVERTER
IC5103 OSD
IC5403 TG
IC5107
IC5011 3 STATE BUFF
IC5017
IC5018 LAMP/LCD TEMP DET
IC5001(1/2) REMOTE SW
IC5001(2/2) REMOTE SW
IC5008(6/6) DC BUFF
IC5008(5/6) DC BUFF
IC5008(1/6) DC BUFF
IC5008(2/6) DC BUFF
IC5007 FRAM
IC5009 FRAM
IC5006 RESET/WDT
IC5002 +15V REG
IC5004 +12V REG
IC5013 +5V REG
IC5102
IC5404
IC5014 (1/2)
IC5014 (2/2)
IC5015(1/2)
IC5015(2/2)
IC5016
IC5012(1/2)
IC5012(2/2)
IC5003(1/2)
IC5003(2/2)
IC4001 RECEIVER
IC4801 RECEIVER
CN4101
CN4201
CN4001
CN4801
CN5012
CN5023 LAMP COVER
CN5020
CN5001
CN5024
CN5002
CN5008
CN5009
CN5022 IRDA
CN5006
CN5003
CN5010
CN5021
CN5302
CN5201
CN5301
S4101
S4201
TP5014 R
TP5013 G
TP5012 B
TP5106 R MIX
TP5105 G MIX
TP5104 B MIX
TP5107 R OUT
TP5108 G OUT
TP5109 B OUT
TO BB BOARD CN3001
TO H BOARD CN6001
TO BA BOARD CN2006
TO QA BOARD CN1004
TO QC BOARD CN1601
TO BALLAST
TO GBA BOARD CN7103
TO BB BOARD CN3003
TEMP FUSE
VISCA
FLASH
Q5101 PIC MUTE
Q5001 FLASH SW
Q5002,5003 RES SW
Q5301,5302 R-SID BUFF
Q5201,5203 G-SID BUFF
Q5303,5304 B-SID BUFF
D5010
D5011
X5001 16MHz
TH5001 LAMP
TH5002 LCD
LCD PANEL (R)
LCD PANEL (G)
LCD PANEL (B)
I-LAMP-C
I-FILTER-C
O-NF OFF
O-NR OFF
O-MENBN
I-SIRCS
O-SPMUTE
O-AUDIO MUTE
O-QC ENB
O-MA/B
O-LAMP ON
I-LAMP
O-POWERON
I-FAN
O-FANON
I-EXT SW
O-RXD1
O-TXD1
MD2
O-BUSOFF
O-SCAD0
O-SCAD1
O-SCAD2
O-SCAD3
O-SCRST
I-FH CONT
I-FH
I-FV
I-FV CONT
I-VSI
I-VSO
I-SCRD(RXDO)
SP MUTE
AU MUTE
OAE
SDAT
SCLK
IRDA
L CONT OUT
L CONT IN
LAMP BUFF
SCI
FLAG
POWER CONT
FAN PROT
FAN CONT
EXT SW
RXD
TXD
TXD
RXD
MD
VSO
RES
SIRCS-S
SIRCS
SCAD0
SCAD1
SCAD2
SCAD3
/SCRST
SCCLK
SCWD
HSTHO
VSTHO
/VSO
SCRD
/HSO
TCLK
OCLK-
OCLK+
I-KEY0
I-KEY1
O-LAMP LED
O-TEMP LED
O-POWER LED
O-PSAVE LED
O-LIGHT
KEY0
KEY1
LAMP LED
TEMP LED
POWER LED
PSAVE LED
LIGHT
I-SDA
SDA
SCL
O-SCL
O-SDA
XTAL
EXTAL
O-PICMUTE
PIC-MUTE
PIC MUTE
O-192LED
O-96LED
O-OSDOS
O-OSD ON
I-TRE
O-SCLK(SCKO)
O-SDAT(TXDO)
O-RESN
O-DALD
O-TGCS
I-FD1
O-FD1
O-FCL
I-FD2
O-FD2
I-TEMP
RES
O-WDT
RESO
HSO
VSO
SCLK,SDAT
HSO,VSO
MCLK/MCLK
R IN
G IN
B IN
R-OSD
G -OSD
B-OSD
B-SCON
G-SCON
R-SCON
B-SBRT
G-SBRT
R-SBRT
M-CON
M-BRT
CLP-IN
BLK IN
MAIN CONT
MAIN BRT
R SCON
G SCON
B SCON
R SBRT
G SBRT
B SBRT
R OUT
G OUT
B OUT
DLY-CON
INV-CON
SID-OUT
V33
POS-CON1
POS-CON2
SID LEV
SCL
SDA
DISP
CS
TRE
SCLK
SDAT
RESN
S IN
RESET
DOCKI
H SYNC
V SYNC
DALD
TGCS
A01
A02
A03
A04
A05
A06
A07
A08
A09
A010
A011
A012
DI
CLK
LD
XCLP1
VSYNC
SCTR
H SYNC
V SYNC
CK12
XCLR
PRG
RGT
FRP
XRGT
MODE 3
MODE 2
MODE 1
HST
HCK 1
HCK 2
BLK
ENB
VCK
VST
PCG
DWN
VIDEO IN
SID-IN
DIR-CNT
SID-OFST
OFFSET
PRG
POS-CNT1
POS-CNT2
FRP
ENB
VCOM OFST
SIG CEN
MCLK
SH-OUT 1
SH-OUT 2
SH-OUT 3
SH-OUT 4
SH-OUT 5
SH-OUT 6
VCOM OUT
SIG1
SIG2
SIG3
SIG4
SIG5
SIG6
SIG1-SIG6
VVDD
HVDD
COM
RGT
HST
HCK2
HCK1
ENB
VCK
VST
PCG
PSIG
DWN
BLK
MODE3
MODE2
MODE1
+15V
+5V
+16.5V
+12V
A+5V
R-SCN
G-SCN
B-SCN
R-SBRT
G-SBRT
B-SBRT
R-SCON
G-SCON
B-SCON
R-SID BUFF
G-SID BUFF
B-SID BUFF
(R)
(G)
(B)
VID1-VID12


QA (AUDIO)
IC1008
AUDIO SW/PROCESSOR
IC1007
AUDIO AMP
IC009
VCT BUFF,R-INVERTING
IC1006
HP AMP
CN1003
L-VIDEO
R-VIDEO
J1001
R-A
L-A
AUDIO INPUT-A
J1002
R-B
L-B
AUDIO INPUT-B
CN1004
CE
SDAT
SCLK
SP-MUTE
AUDIO-MUTE
SIRCS-S
SIRCS
J1005
CONTROL S-IN
TO C BOARD CN5002
TO QB BOARD CN1501
IN13
IN12
IN11
IN23
IN22
IN21
DATA
CLK
REO1
REO2
VCT
TCLC 12
TCLC11
TCHC1
LDLC1
TCLC 22
TCLC 21
TCHC 2
LDLC 1
ENTO1
ENTO2
IN-L
IN-R
L-OUT
R-OUT
F.B.
IN1+
IN2+
IN2-
OUT 1
OUT 2
OUT2
OUT1
Q1011,1012
SP-MUTE
Q1007
MUTE
+12V
Q1006
MUTE
Q1003
MUTE SW
Q1004
MUTE SW
J1004
AUDIO OUT
Q1008
INV. BUFF
Q1005
INV. BUFF
SUB+5V
IC1001
TIMER
Q1001
SW
2Q
2B
Q1002
SW
CN1001
L SUB SP+
L SUB SP-
MAIN SP+
MAIN SP-
R SUB SP-
R SUB SP+
H (CONTROL PANEL)
CN6002
CN6003
CN6004
MAIN
KEY MATRIX
S60001-6008
S6009-6014
KEY-MATRIX
LED
D6003,6004, D6006,6007
LED
D6015-6028
D6005
Q6001
SW
STBY-LED
Q6002-6005
SW
D6014
SUB+5V
CN6001
KEY0
KEY1
LAMP-LED
TEMP-LED
POWER-LED
PSAVE-LED
D.5V
LIGHT
TO C BOARD CN6001


QC (MOUSE DRIVER)
IC1601
MOUSE CONTROLLER
IC1600
MOUSE CONTROLLER
CN1601
IRD A
IRD B
TO C BOARD CN5022
Q1603
SW
IR
X1600
XTAL2
XTAL1
SERIAL
TD
ACK
DAT
CLK
SLEEP
BUTTON
98/AT
R
L
MAC/PS2
YB
YA
XB
XA
CLOCK
DATA
ADB
XTAL1
ADB OUT
Q1602
SW
IC1602
3 STATE BUFF
D1641
Q1608
SW
CN1600
RTS
RXD
98/AT/TXD
R
L/PS
YB
YA
XB
XA
CLK
DAT/RI
MOUSE PORT
(Q1607)
(IC1608)
(IC1607)
(IC1609)
(Q1609)
(Q1606)
(SAME AS TRD A PROCESS)
CN1602
MOUSE PORT

BB (SCAN CONVERTER)

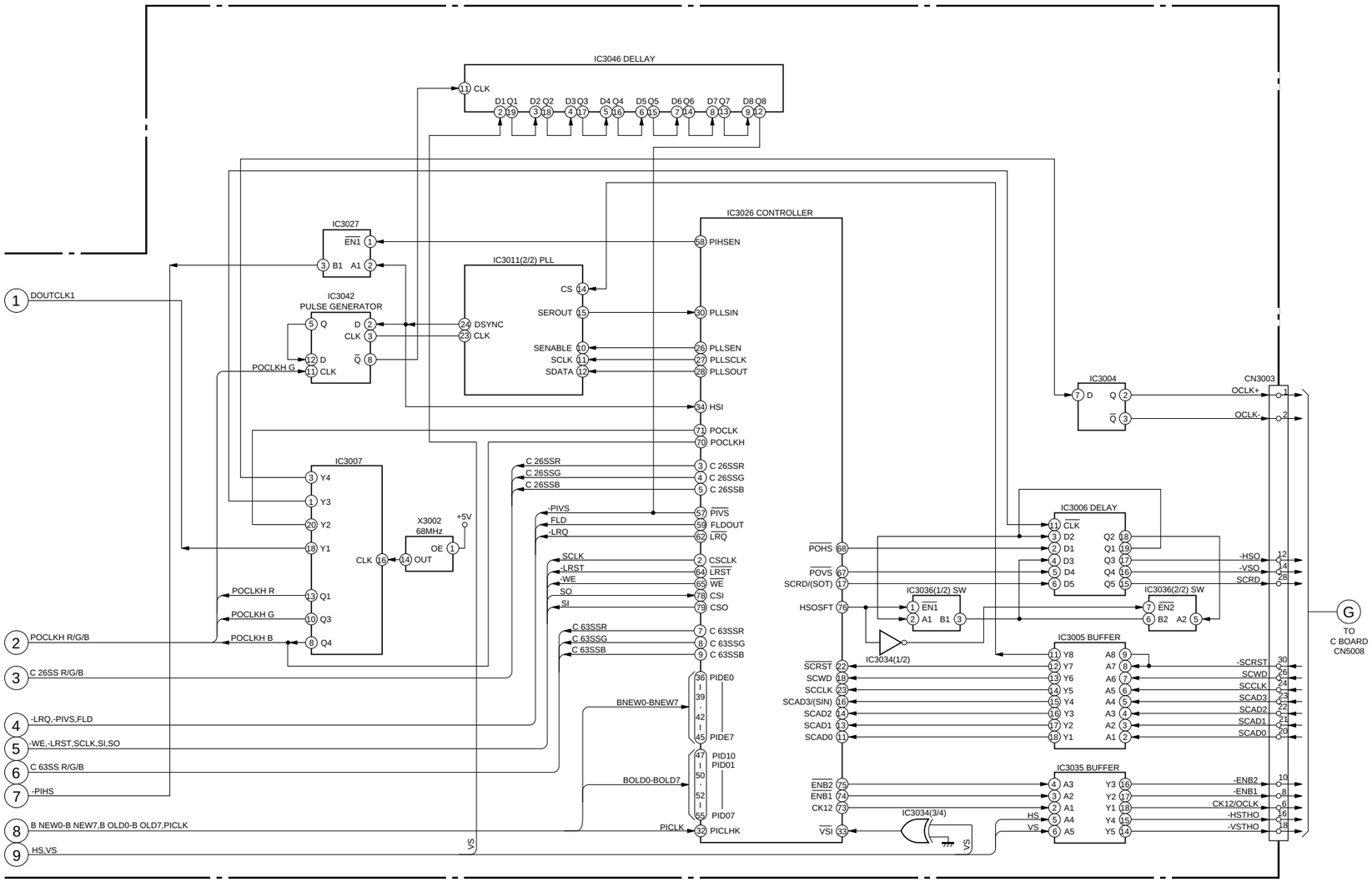
CN3005
IC3029
IC3028 A/D CONVERTER(R)
IC3018
IC3021
IC3017 A/D CONVERTER(G)
IC3020 A/D CONVERTER(B)
IC3031 SHUNT REG
IC3041(1/2) DC SHIFT
Q3001 DC SIHFT
CN3004
IC3011(1/2) PLL
IC3045
TO BA BOARD CN2003
TO BA BOARD CN2004
R NEW0-R NEW7
R OLD0-R OLD7
G NEW0-G NEW7
G OLD0-G OLD7
B NEW0-B NEW7
B OLD0-B OLD7
PICLK
HS,VS

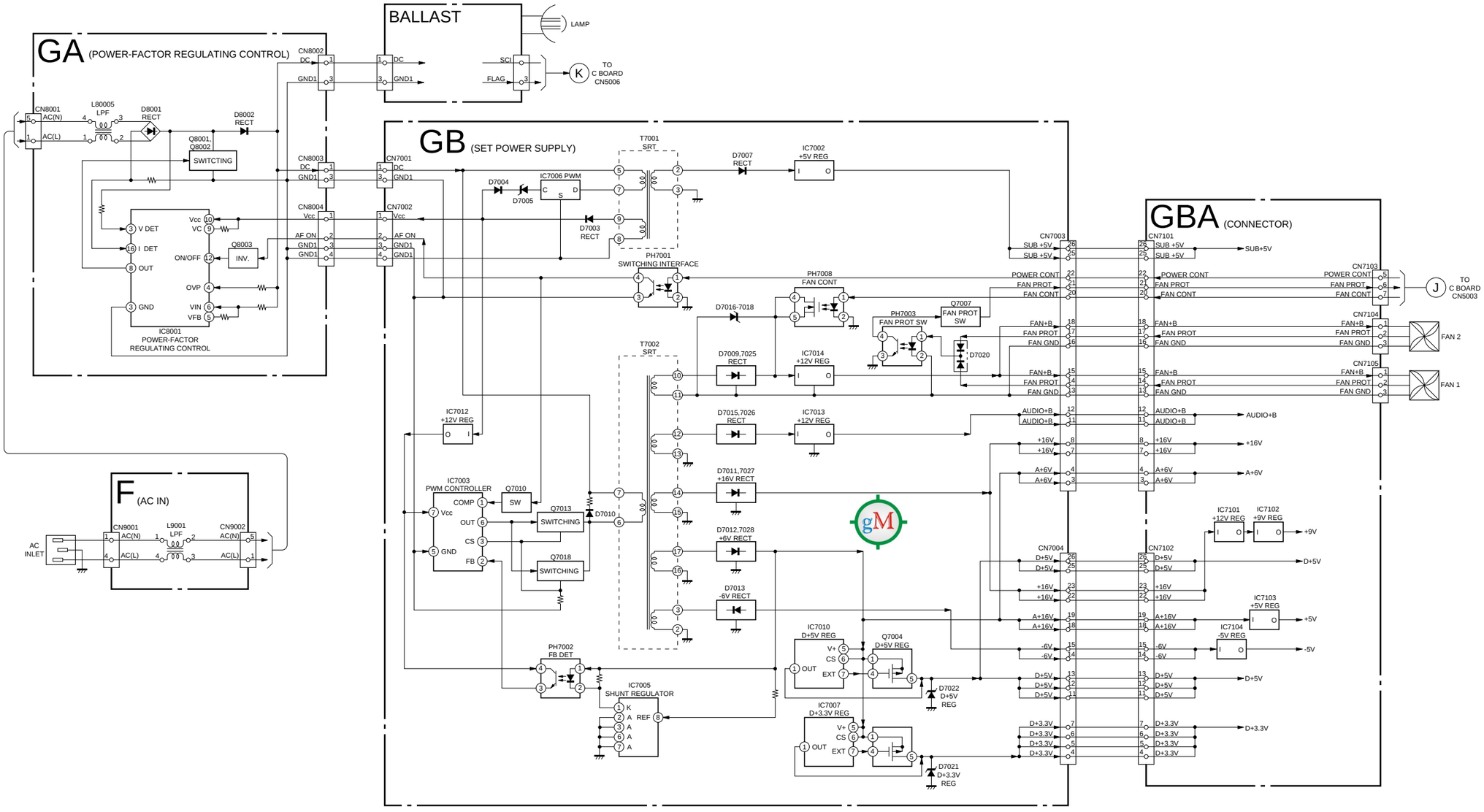
R MEMORY PROCESS
IC3040 MEMORY CONTROLLER
IC3039 8M SGRAM
IC3024 LINE MEMORY
IC3023 BILINEAR INTERPOLATION
X3001 60MHz
+3.3V
-PIHS
C 63SSR
-LRQ
-PIVS
FLD
-WE,-LRST,SCLK,SI,SO
C 26SSR
POCLKHR
-PRQ
MCLK

G MEMORY PROCESS (SAME AS R PRCESS)
IC3033 MEMORY CONTROLLER
IC3032 (8M SGRAM)
IC3002 (LINE MEMORY)
IC3001 BILINEAR INTERPOLATION
C 26SSG
POCLKH G

B MEMORY PROCESS (SAME AS R PRCESS)
IC3038 MEMORY CONTROLLER
IC3037 (8M SGRAM)
IC3016 (LINE MEMORY)
IC3015 BILINEAR INTERPOLATION
C 26SSB
POCLKH B

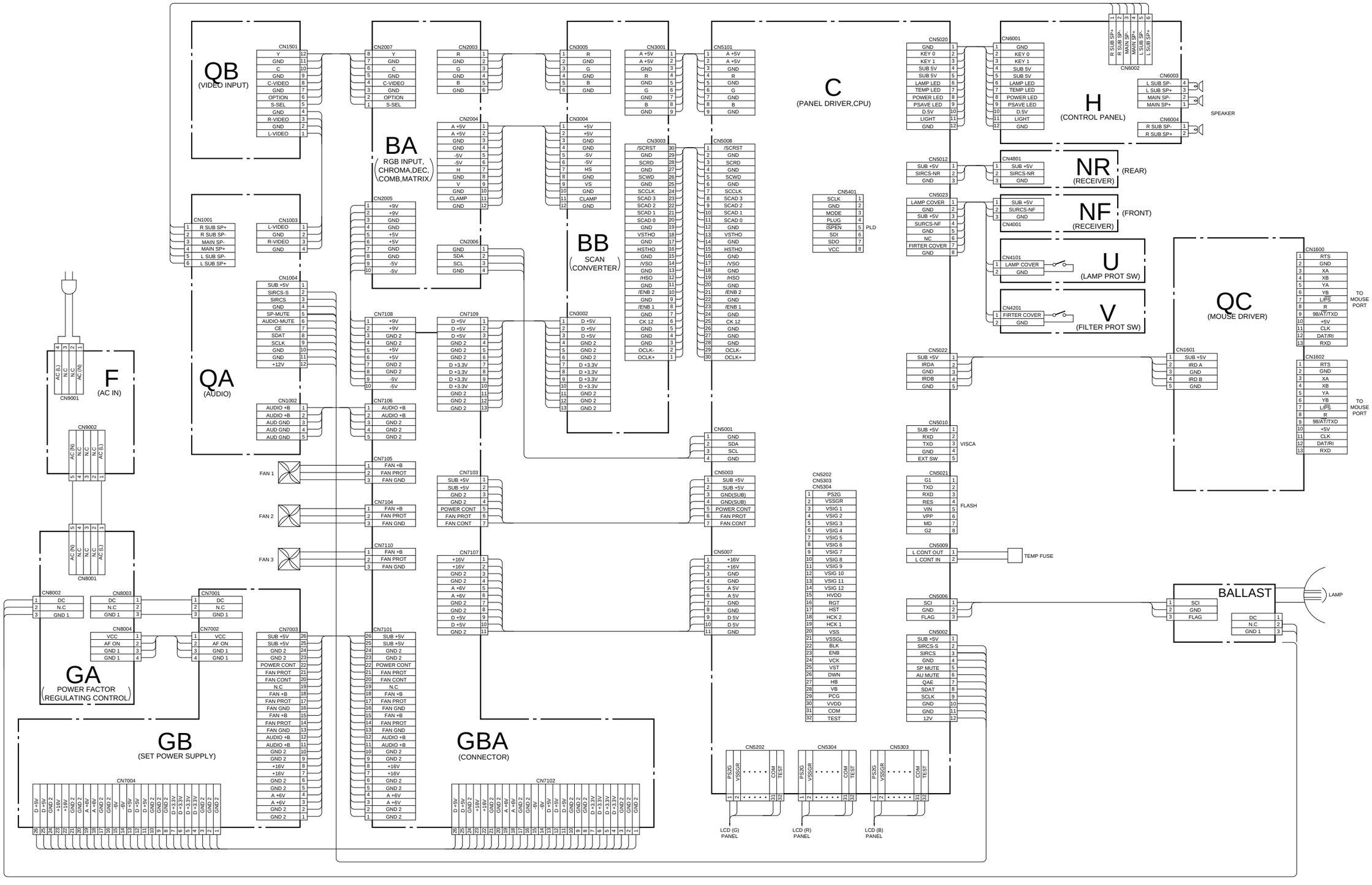
IC3022(1/2) MULTIPLEXER(R)
IC3009 D/A CONVERTER
RED NEW0-RED NEW7
RED OLD0-RED OLD7
IC3014(1/2) MULTIPLEXER(G)
GREEN NEW0-NEW7
GREEN OLD0-OLD7
IC3022(2/2) MULTIPLEXER(B)
BLUE NEW0-NEW3
BLUE OLD0-OLD3
IC3014(2/2) MULTIPLEXER(B)
BLUE NEW4-NEW7
BLUE OLD4-OLD7
IC3033
CN3001
IOR
IOG
IOB
RED
GREEN
BLUE
TO C BOARD CN5024
CLOCK
DOUTCLK1
POCLKH R/G/B
C 26SS R/G/B
-LRQ,-PIVS,FLD
-WE,-LRST,SCLK,SI,SO
C 63SS R/G/H
C 63SS R/G/B
-PIHS
B NEW0-B NEW7,B OLD0-B OLD7,PICLK
HS,VS


IC3046 DELLAY
11 CLK
D1 Q1 D2 Q2 D3 Q3 D4 Q4 D5 Q5 D6 Q6 D7 Q7 D8 Q8
2 19 3 18 4 17 5 16 6 15 7 14 8 13 9 12
IC3027
EN1 1
3 B1 A1 2
IC3042
PULSE GENERATOR
5 Q D 2
CLK 3
12 D Q 8
11 CLK
POCLKH G
IC3011(2/2) PLL
CS 14
SEROUT 15
SENABLE 10
SCLK 11
SDATA 12
24 DSYNC
23 CLK
IC3026 CONTROLLER
58 PIHSEN
30 PLLSIN
26 PLLSEN
27 PLLSCLK
28 PLLSOUT
34 HSI
71 POCLK
70 POCLKH
IC3007
3 Y4
1 Y3
20 Y2
18 Y1
13 Q1
10 Q3
8 Q4
POCLKH R
POCLKH G
POCLKH B
X3002
68MHz
+5V
OE 1
CLK 16
14 OUT
C 26SSR
C 26SSG
C 26SSB
3 C 26SSR
4 C 26SSG
5 C 26SSB
-PIVS
FLD
-LRQ
57 PIVS
59 FLDOUT
62 LRQ
SCLK
-LRST
-WE
SO
SI
2 CSCLK
64 LRST
65 WE
78 CSI
79 CSO
C 63SSR
C 63SSG
C 63SSB
7 C 63SSR
8 C 63SSG
9 C 63SSB
36 PIDE0
39
42
45 PIDE7
47 PID10
50 PID01
52
55 PID07
BNEW0-BNEW7
BOLD0-BOLD7
PICLK
32 PICLHK
1 DOUTCLK1
2 POCLKH R/G/B
3 C 26SS R/G/B
4 -LRQ,-PIVS,FLD
5 -WE,-LRST,SCLK,SI,SO
6 C 63SS R/G/B
7 -PIHS
8 B NEW0-B NEW7,B OLD0-B OLD7,PICLK
9 HS,VS
VS
IC3004
7 D Q 2
Q 3
CN3003
OCLK+ 1
OCLK- 2
IC3006 DELAY
11 CLK
3 D2 Q2 18
2 D1 Q1 19
4 D3 Q3 17
5 D4 Q4 16
6 D5 Q5 15
-HSO 12
-VSO 14
SCRD 28
POHS 68
POVS 67
SCRD/(SOT) 17
HSOSFT 76
IC3036(1/2) SW
1 EN1
2 A1 B1 3
IC3036(2/2) SW
7 EN2
6 B2 A2 5
IC3034(1/2)
IC3005 BUFFER
11 Y8 A8 9
12 Y7 A7 8
13 Y6 A6 7
14 Y5 A5 6
15 Y4 A4 5
16 Y3 A3 4
17 Y2 A2 3
18 Y1 A1 2
SCRST 22
SCWD 18
SCCLK 23
SCAD3/(SIN) 16
SCAD2 14
SCAD1 13
SCAD0 11
-SCRST 30
SCWD 26
SCCLK 24
SCAD3 23
SCAD2 22
SCAD1 21
SCAD0 20
IC3035 BUFFER
4 A3 Y3 16
3 A2 Y2 17
2 A1 Y1 18
5 A4 Y4 15
6 A5 Y5 14
ENB2 75
ENB1 74
CK12 73
VSI 33
IC3034(3/4)
HS
VS
-ENB2 10
-ENB1 8
CK12/OCLK 6
-HSTHO 16
-VSTHO 18
G
TO
C BOARD
CN5008


F (AC IN)
CN9001
AC(N)
AC(L)
L9001
LPF
CN9002
AC(N)
AC(L)
AC INLET
GA (POWER-FACTOR REGULATING CONTROL)
CN8001
AC(N)
AC(L)
L80005
LPF
D8001
RECT
D8002
RECT
Q8001, Q8002
SWITCTING
IC8001
POWER-FACTOR
REGULATING CONTROL
V DET
I DET
OUT
GND
Vcc
VC
ON/OFF
OVP
VIN
VFB
Q8003
INV.
CN8002
CN8003
CN8004
DC
GND1
AF ON
Vcc
BALLAST
LAMP
SCI
FLAG
TO
C BOARD
CN5006
GB (SET POWER SUPPLY)
CN7001
CN7002
T7001
SRT
D7004
D7005
IC7006 PWM
D7003
RECT
D7007
RECT
IC7002
+5V REG
PH7001
SWITCHING INTERFACE
PH7008
FAN CONT
D7016-7018
PH7003
FAN PROT SW
Q7007
FAN PROT
SW
D7020
T7002
SRT
D7009,7025
RECT
IC7014
+12V REG
IC7012
+12V REG
D7015,7026
RECT
IC7013
+12V REG
IC7003
PWM CONTROLLER
Q7010
SW
Q7013
SWITCHING
D7010
Q7018
SWITCHING
D7011,7027
+16V RECT
D7012,7028
+6V RECT
D7013
-6V RECT
PH7002
FB DET
IC7005
SHUNT REGULATOR
IC7010
D+5V REG
Q7004
D+5V REG
D7022
D+5V
REG
IC7007
D+3.3V REG
D7021
D+3.3V
REG
CN7003
SUB +5V
POWER CONT
FAN PROT
FAN CONT
FAN+B
FAN GND
AUDIO+B
+16V
A+6V
CN7004
D+5V
+16V
A+16V
-6V
D+3.3V
GBA (CONNECTOR)
CN7101
CN7102
CN7103
CN7104
CN7105
TO
C BOARD
CN5003
FAN 2
FAN 1
IC7101
+12V REG
IC7102
+9V REG
IC7103
+5V REG
IC7104
-5V REG
+9V
+5V
-5V
gM

SECTION 8
DIAGRAMS

8-1. FRAME SCHEMATIC DIAGRAM



8-2. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

NOTE:

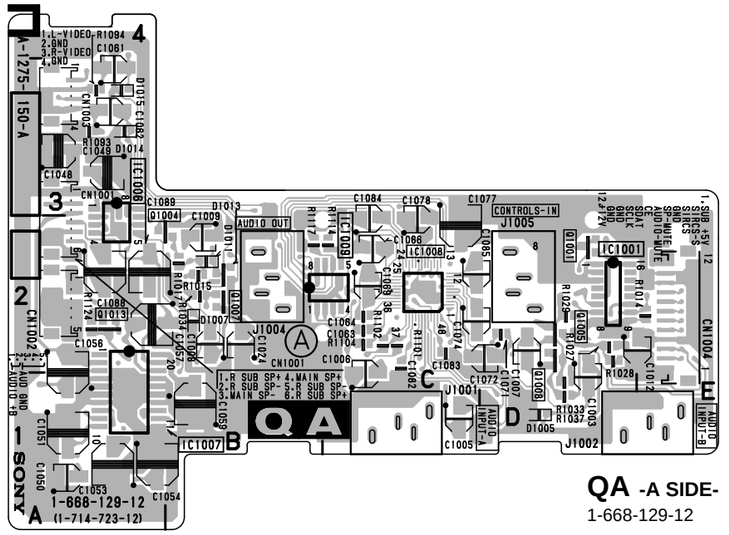
- All capacitors are in µF unless otherwise noted. pF: µµF
- Capacitors without voltage indication are all 50V.
- All resistors are in ohms, 1/4W in resistance, 1/10W in chip resistance.
  kΩ = 1000Ω, MΩ = 1000kΩ
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- # marked in these schematic diagrams signifies not mounted.
- Voltage value is the reference value between it and the earth, when VIDEO color bar signal is received from color bar generator (digital multi-meter used : 10M ohms/V DC).
- Unit of voltage values is V (volt).
- * : Measurement disabled.
- V : B + line,B – line.
  (Actual measured value may be different).
- Circled numbers are waveform references.
- : Signal Path.

Reference information

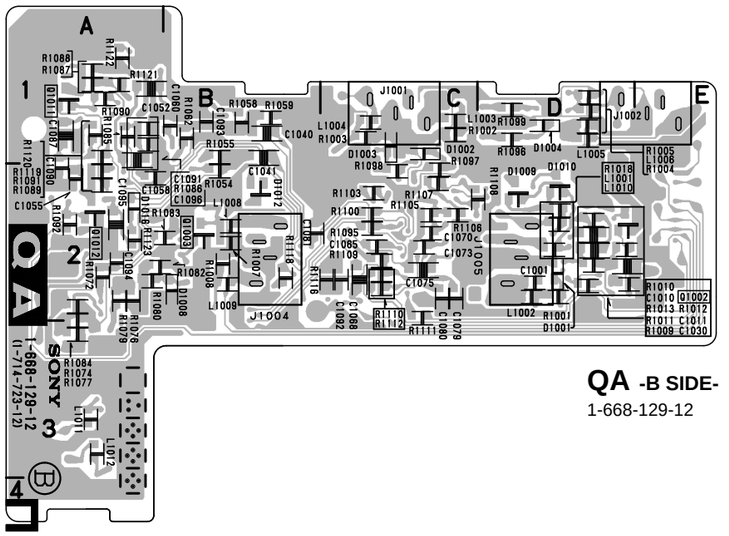
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFRAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: ※	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The component identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

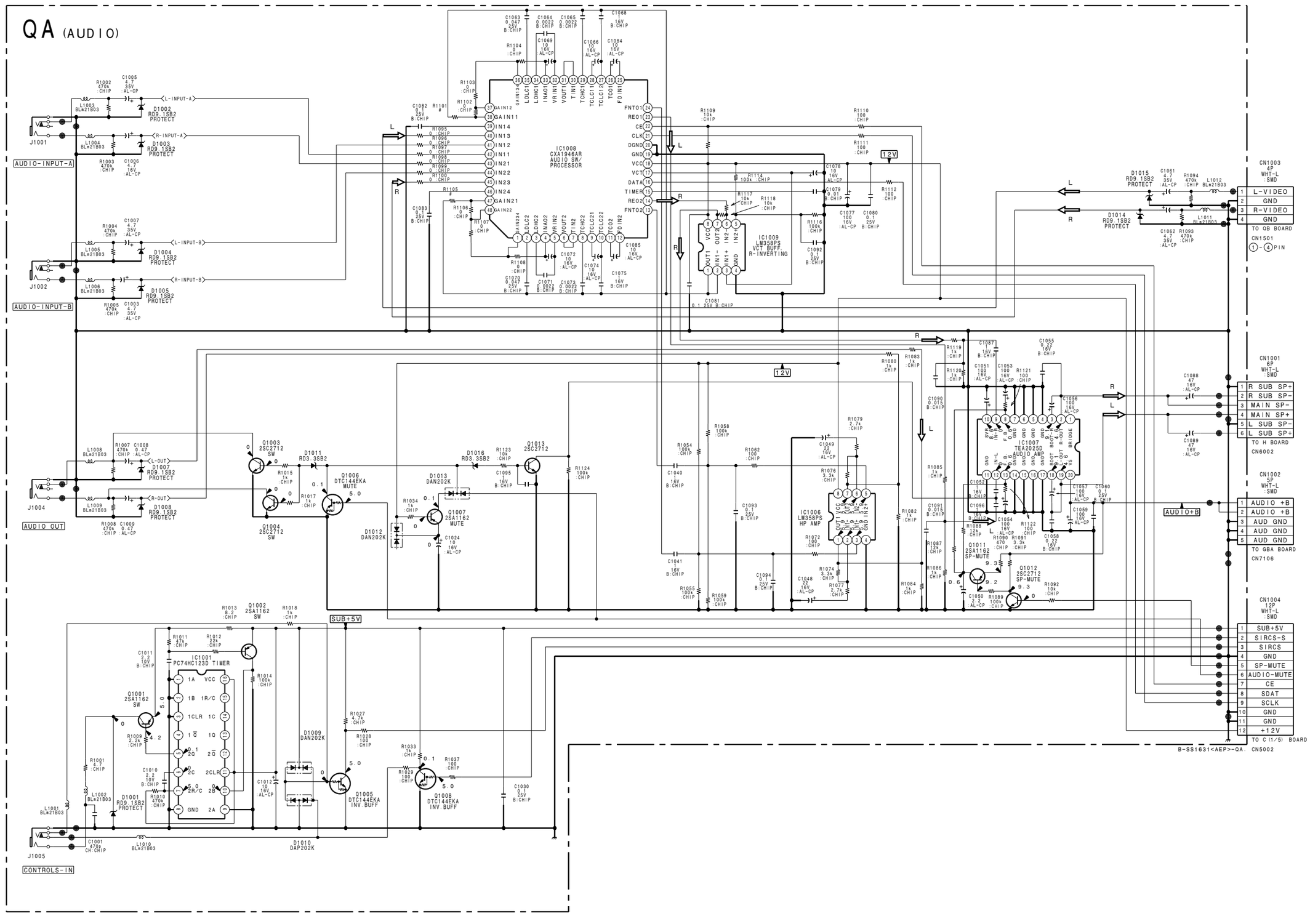


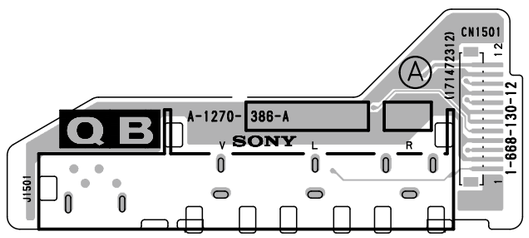
QA -A SIDE-
1-668-129-12



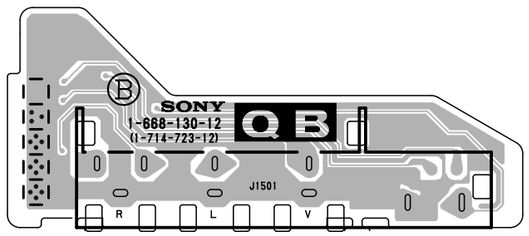
QA -B SIDE-
1-668-129-12

QA (AUDIO)

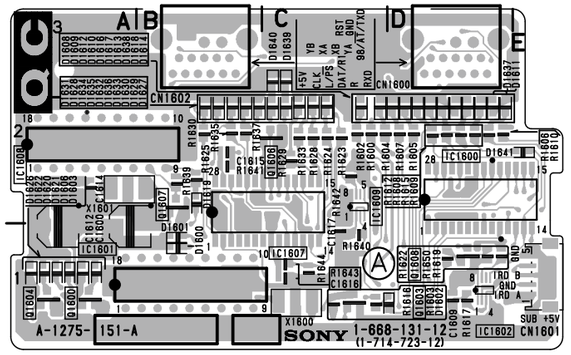

AUDIO-INPUT-A
AUDIO-INPUT-B
AUDIO OUT
CONTROLS-IN
SUB+5V
L-INPUT-A
R-INPUT-A
L-INPUT-B
R-INPUT-B
L-OUT
R-OUT
IC1008 CXA1946AR AUDIO SW/ PROCESSOR
IC1009 LM358PS VCT BUFF R-INVERTING
IC1006 LM358PS HP AMP
IC1007 TEA2025D AUDIO AMP
IC1001 PC74HC123D TIMER
Q1001 2SA1162 SW
Q1002 2SA1162 SW
Q1003 2SC2712 SW
Q1004 2SC2712 SW
Q1005 DTC144EKA INV.BUFF
Q1006 DTC144EKA MUTE
Q1007 2SA1162 MUTE
Q1008 DTC144EKA INV.BUFF
Q1011 2SA1162 SP-MUTE
Q1012 2SC2712 SP-MUTE
Q1013 2SC2712
D1001 RD9.1SB2 PROTECT
D1002 RD9.1SB2 PROTECT
D1003 RD9.1SB2 PROTECT
D1004 RD9.1SB2 PROTECT
D1005 RD9.1SB2 PROTECT
D1007 RD9.1SB2 PROTECT
D1008 RD9.1SB2 PROTECT
D1009 DAN202K
D1010 DAP202K
D1011 RD3.3SB2
D1012 DAN202K
D1013 DAN202K
D1014 RD9.1SB2 PROTECT
D1015 RD9.1SB2 PROTECT
D1016 RD3.3SB2
J1001
J1002
J1004
J1005
12V
CN1003 4P WHT-L :SMD
1 L-VIDEO
2 GND
3 R-VIDEO
4 GND
TO QB BOARD
CN1501 1-4PIN
CN1001 6P WHT-L :SMD
1 R SUB SP+
2 R SUB SP-
3 MAIN SP-
4 MAIN SP+
5 L SUB SP-
6 L SUB SP+
TO H BOARD
CN6002
CN1002 5P WHT-L :SMD
1 AUDIO +B
2 AUDIO +B
3 AUD GND
4 AUD GND
5 AUD GND
TO GBA BOARD
CN7106
CN1004 12P WHT-L :SMD
1 SUB+5V
2 SIRCS-S
3 SIRCS
4 GND
5 SP-MUTE
6 AUDIO-MUTE
7 CE
8 SDAT
9 SCLK
10 GND
11 GND
12 +12V
TO C (1/5) BOARD
B-SS1631<AEP>-QA. CN5002



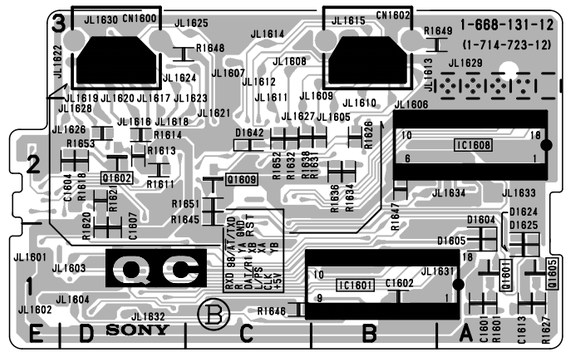
QB -A SIDE-
1-668-130-12
VPL-S600U/S600M



QB -B SIDE-
1-668-130-12
VPL-S600U/S600M

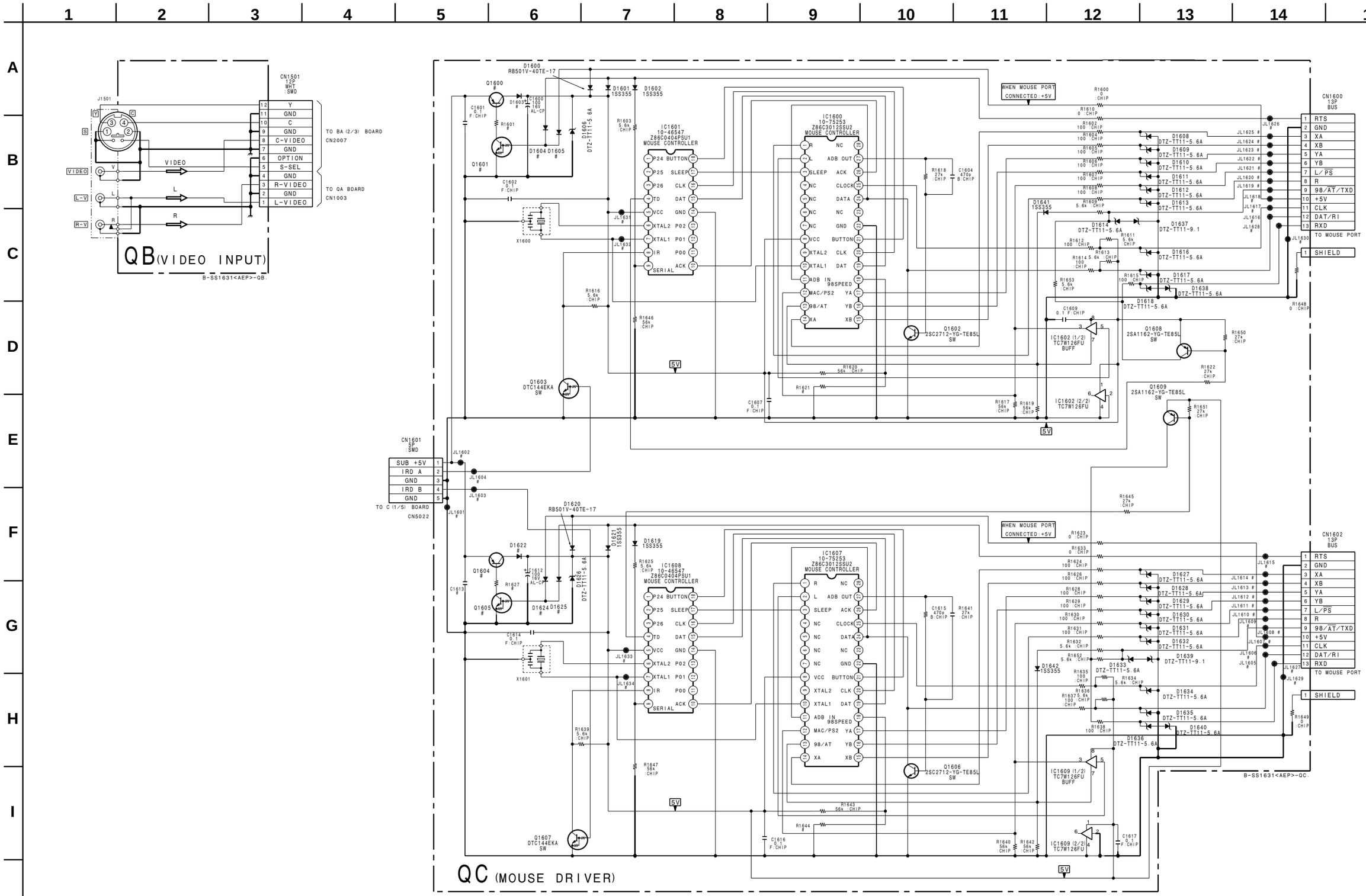


QC -A SIDE-
1-668-131-12



QC -B SIDE-
1-668-131-12

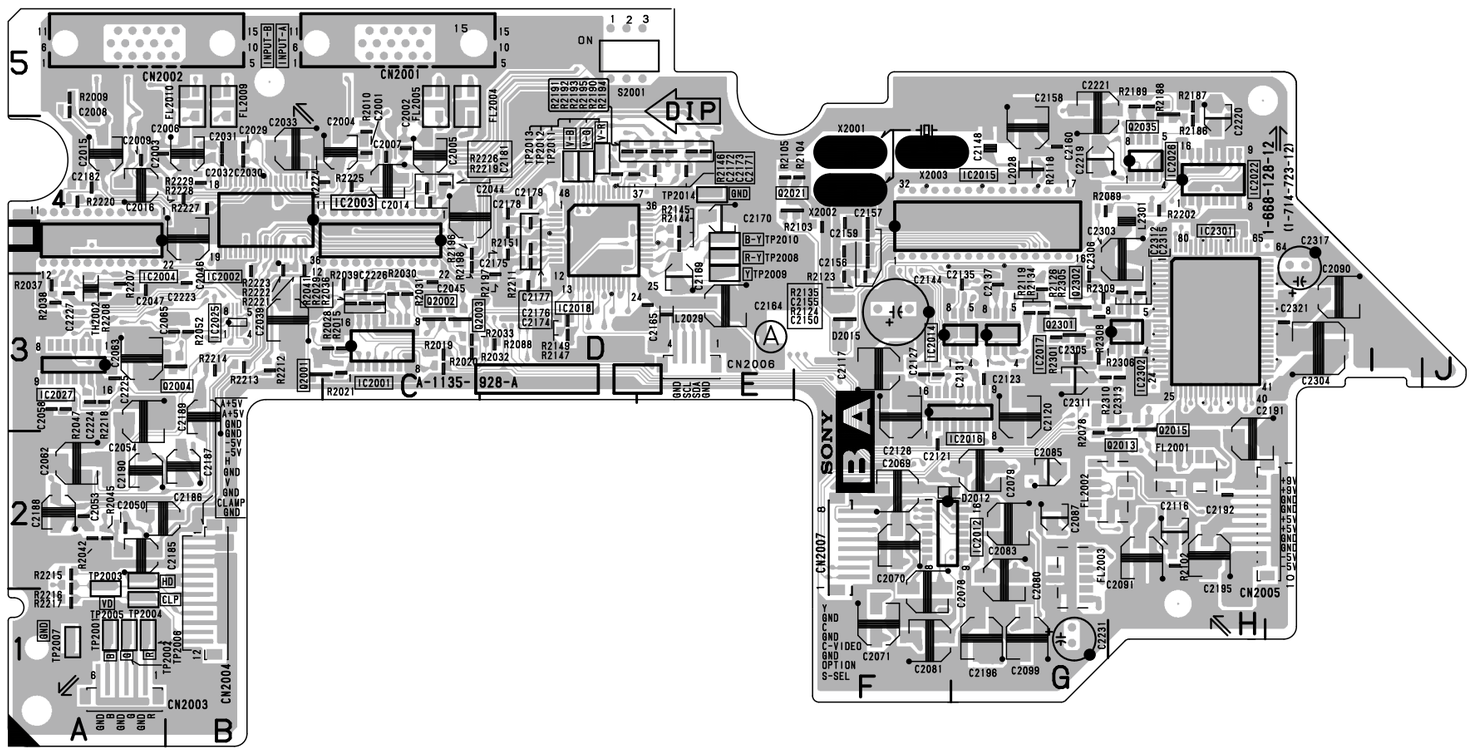
http://getMANUAL.com



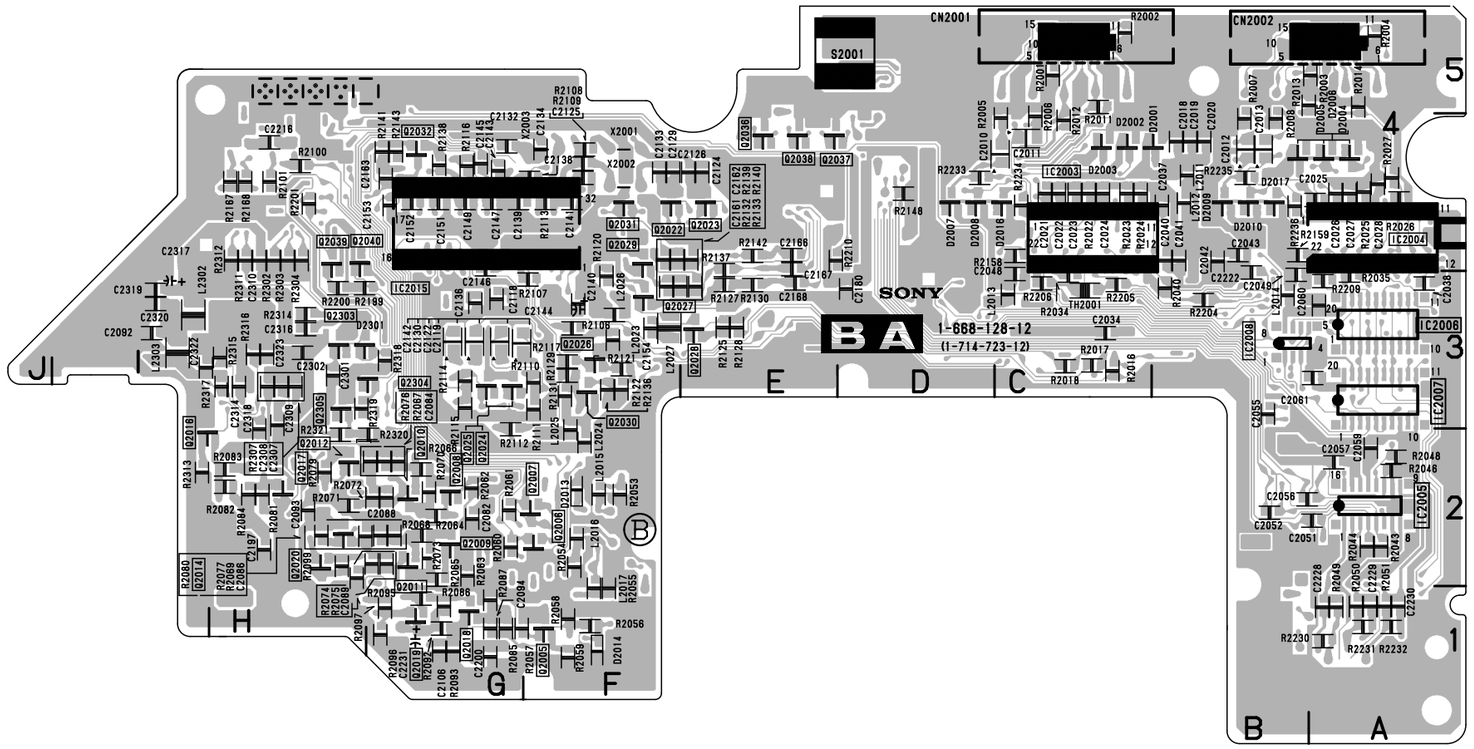
BA BOARD

*: B SIDE

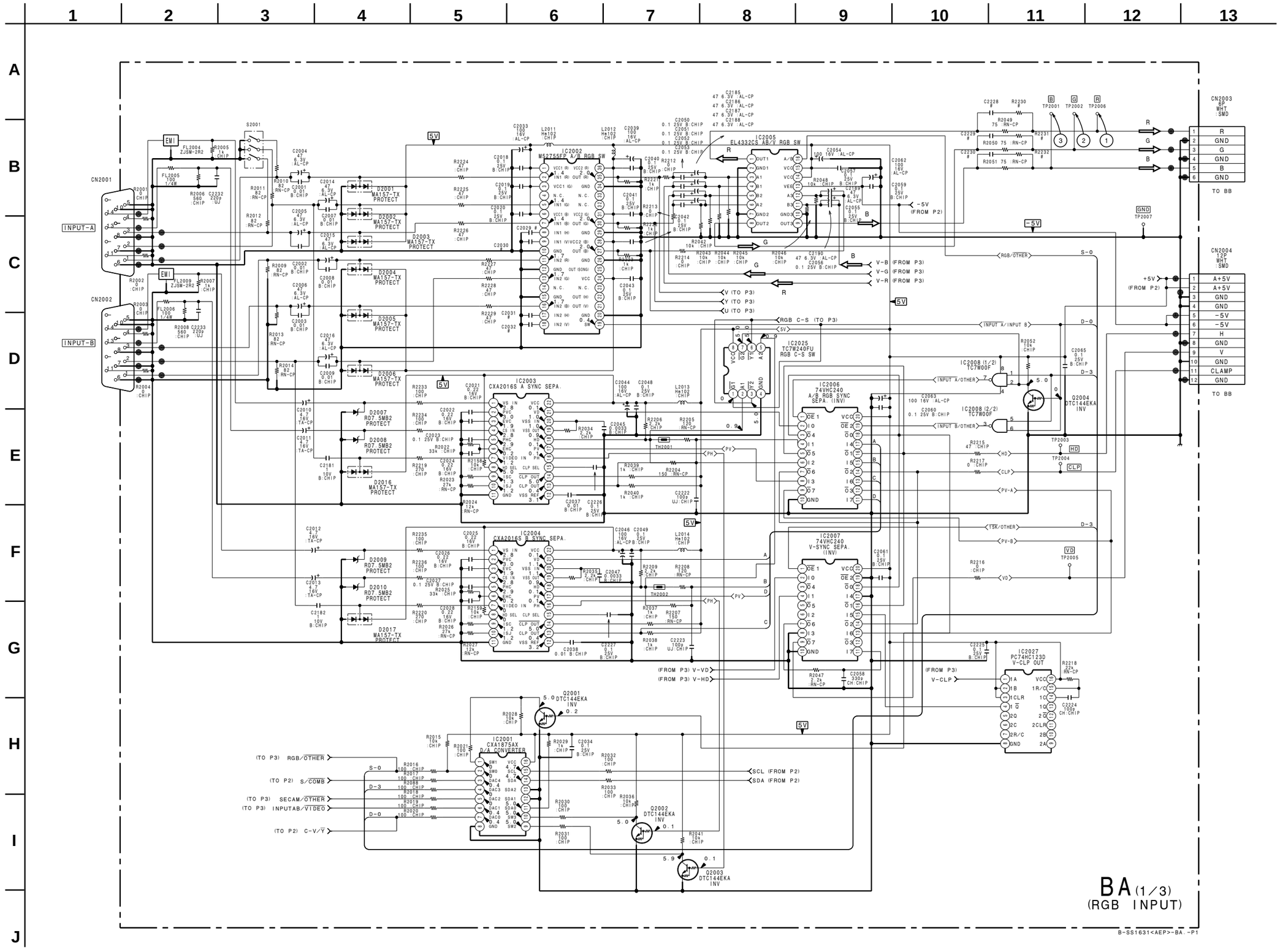
	IC2001	C-3	*	D2001	C-4
	IC2002	B-4	*	D2002	C-4
	IC2003	C-4	*	D2003	C-4
	IC2004	A-4	*	D2004	A-4
*	IC2005	A-2	*	D2005	B-4
*	IC2006	A-3	*	D2006	A-4
*	IC2007	A-3	*	D2007	D-4
*	IC2008	B-3	*	D2008	D-4
	IC2012	G-2	*	D2009	B-4
	IC2014	G-3	*	D2010	B-4
	IC2015	G-4		D2012	G-2
	IC2016	G-3	*	D2013	F-2
	IC2017	G-3	*	D2014	F-1
	IC2018	D-4		D2015	F-3
	IC2022	H-4	*	D2016	C-4
	IC2025	B-3	*	D2017	B-4
	IC2026	H-4	*	D2301	H-3
	IC2027	A-3			
	IC2301	H-3		TP2001	A-1
	IC2302	H-3		TP2002	A-1
				TP2003	A-2
	Q2001	B-3		TP2004	A-1
	Q2002	C-3		TP2005	A-1
	Q2003	C-3		TP2006	A-1
	Q2004	B-3		TP2007	A-1
*	Q2005	F-1		TP2008	E-4
*	Q2006	F-2		TP2009	E-4
*	Q2007	F-2		TP2010	E-4
*	Q2008	G-2		TP2011	D-4
*	Q2009	G-2		TP2012	D-4
*	Q2010	G-2		TP2013	D-4
*	Q2011	G-2		TP2014	E-4
*	Q2012	H-2			
	Q2013	H-2			
*	Q2014	H-2			
	Q2015	H-2			
*	Q2016	I-2			
*	Q2017	H-2			
*	Q2018	G-1			
*	Q2019	G-1			
*	Q2020	H-2			
	Q2021	E-4			
*	Q2022	F-4			
*	Q2023	E-4			
*	Q2024	G-3			
*	Q2025	G-3			
*	Q2026	F-3			
*	Q2027	F-3			
*	Q2028	E-3			
*	Q2029	F-4			
*	Q2030	F-3			
*	Q2031	F-4			
*	Q2032	G-4			
	Q2035	H-4			
*	Q2036	E-4			
*	Q2037	E-4			
*	Q2038	E-4			
*	Q2039	H-4			
*	Q2040	H-4			
	Q2301	G-3			
	Q2302	G-3			
*	Q2303	H-3			
*	Q2304	G-3			
*	Q2305	H-3			



BA -A SIDE-
1-668-128-12



BA -B SIDE-
1-668-128-12


1 2 3 4 5 6 7 8 9 10 11 12 13
A B C D E F G H I J
CN2001
CN2002
INPUT-A
INPUT-B
IC2002 M52755FP A/B RGB SW
IC2003 CXA2016S A SYNC SEPA.
IC2004 CXA2016S B SYNC SEPA.
IC2005 EL4332CS AB/V RGB SW
IC2025 TC7W240FU RGB C-S SW
IC2006 74VHC240 A/B RGB SYNC SEPA. (INV)
IC2007 74VHC240 V-SYNC SEPA. (INV)
IC2001 CXA1875AX D/A CONVERTER
IC2008 (1/2) TC7W00F
IC2008 (2/2) TC7W00F
IC2027 PC74HC123D V-CLP OUT
Q2001 DTC144EKA INV
Q2002 DTC144EKA INV
Q2003 DTC144EKA INV
Q2004 DTC144EKA INV
D2001 MA157-TX PROTECT
D2002 MA157-TX PROTECT
D2003 MA157-TX PROTECT
D2004 MA157-TX PROTECT
D2005 MA157-TX PROTECT
D2006 MA157-TX PROTECT
D2007 RD7.5MB2 PROTECT
D2008 RD7.5MB2 PROTECT
D2009 RD7.5MB2 PROTECT
D2010 RD7.5MB2 PROTECT
D2016 MA157-TX PROTECT
D2017 MA157-TX PROTECT
CN2003 6P WHT :SMD
CN2004 12P WHT :SMD
TO BB
R GND G GND B GND
A+5V A+5V GND GND -5V -5V H GND V GND CLAMP GND
TP2001 TP2002 TP2006 TP2007 TP2003 TP2004 TP2005
HD CLP VD
+5V (FROM P2)
-5V (FROM P2)
V-B (FROM P3) V-G (FROM P3) V-R (FROM P3)
V (TO P3) Y (TO P3) U (TO P3)
RGB C-S (TO P3)
(FROM P3) V-VD (FROM P3) V-HD (FROM P3) V-CLP
SCL (FROM P2) SDA (FROM P2)
(TO P3) RGB/OTHER (TO P2) S/COMB (TO P3) SECAM/OTHER (TO P3) INPUTAB/VIDEO (TO P2) C-V/Y
S-0 D-3 D-0
INPUT A/INPUT B INPUT A/OTHER INPUT B/OTHER
RGB/OTHER T3K/OTHER PV-A PV-B PV PH
5V -5V
BA (1/3) (RGB INPUT)
B-SS1631<AEP>-BA -P1

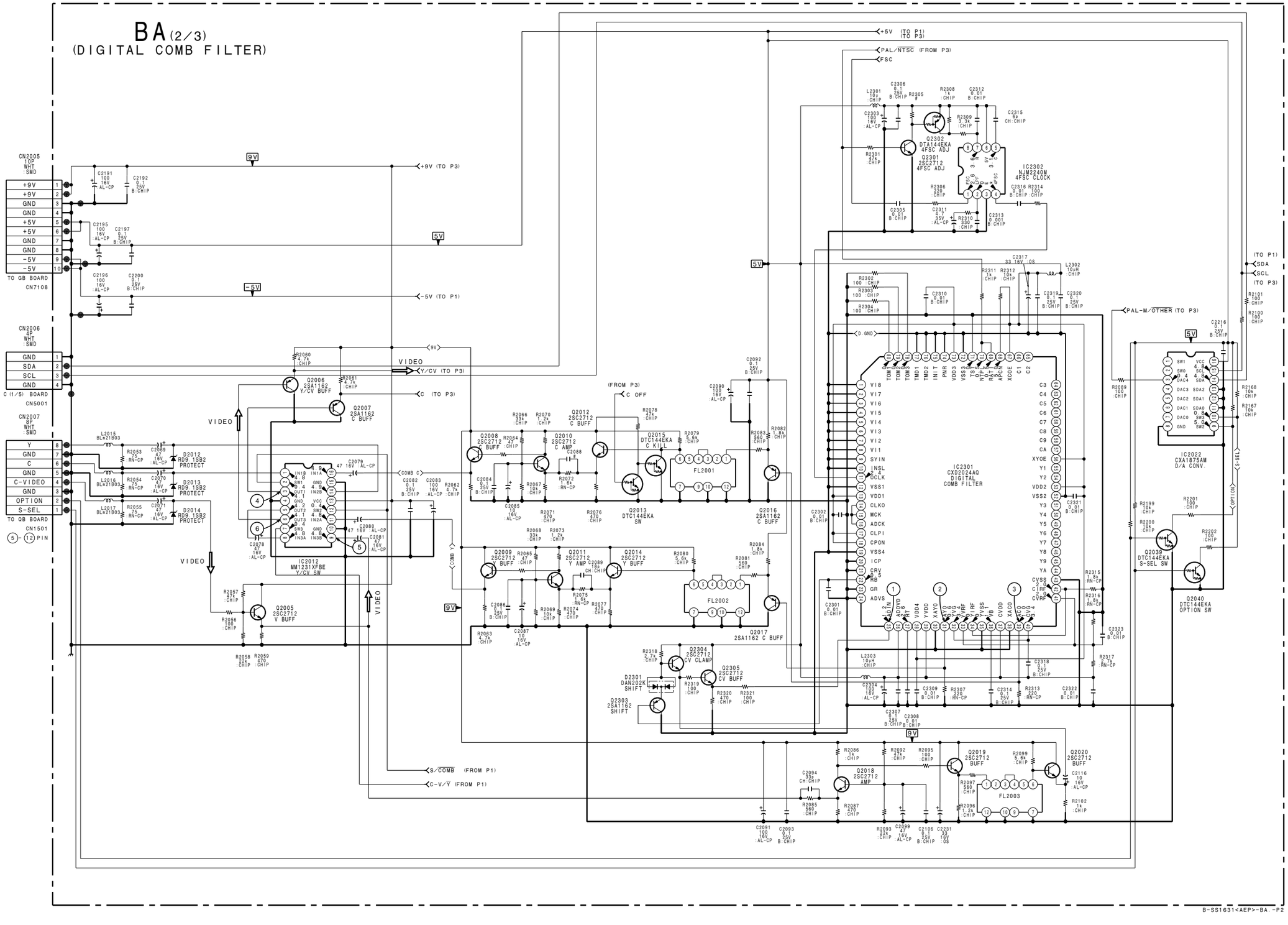
BA (1/3) BOARD WAVE PATTERN

① 0.6Vp-p (H)

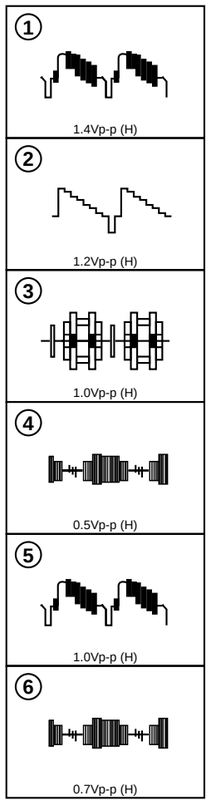
② 0.6Vp-p (H)

③ 0.6Vp-p (H)

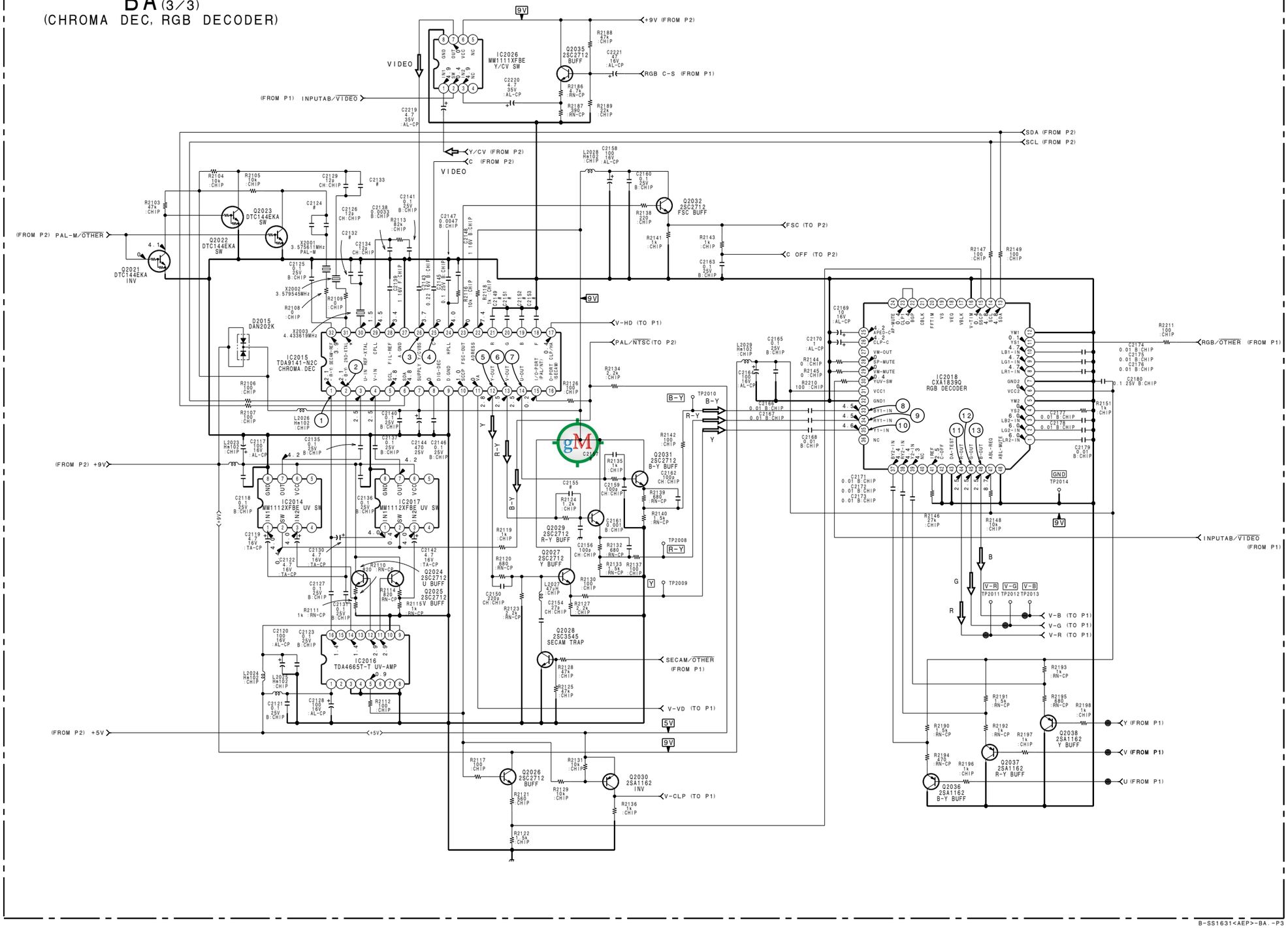
BA (2/3)
(DIGITAL COMB FILTER)



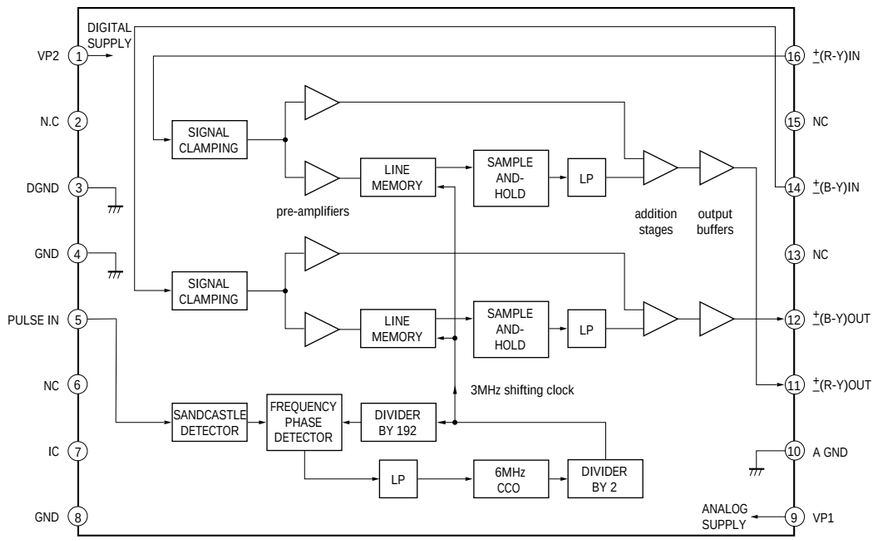
BA (2/3) BOARD WAVE PATTERN



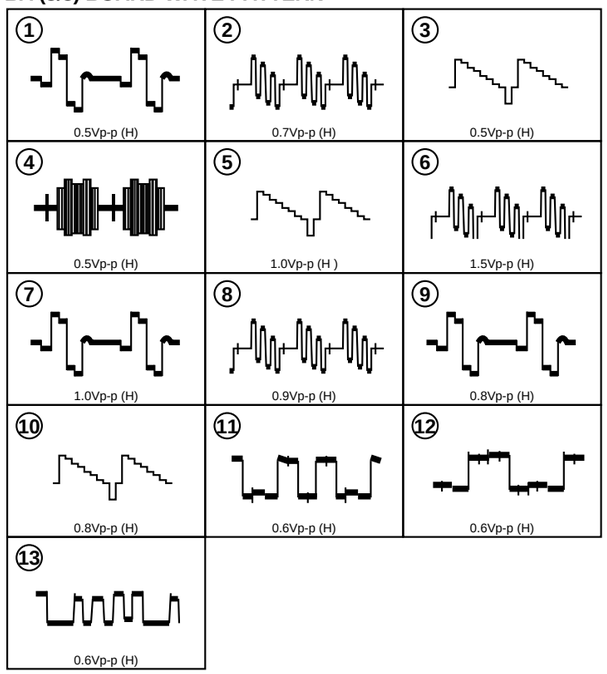
BA (3/3)
(CHROMA DEC, RGB DECODER)

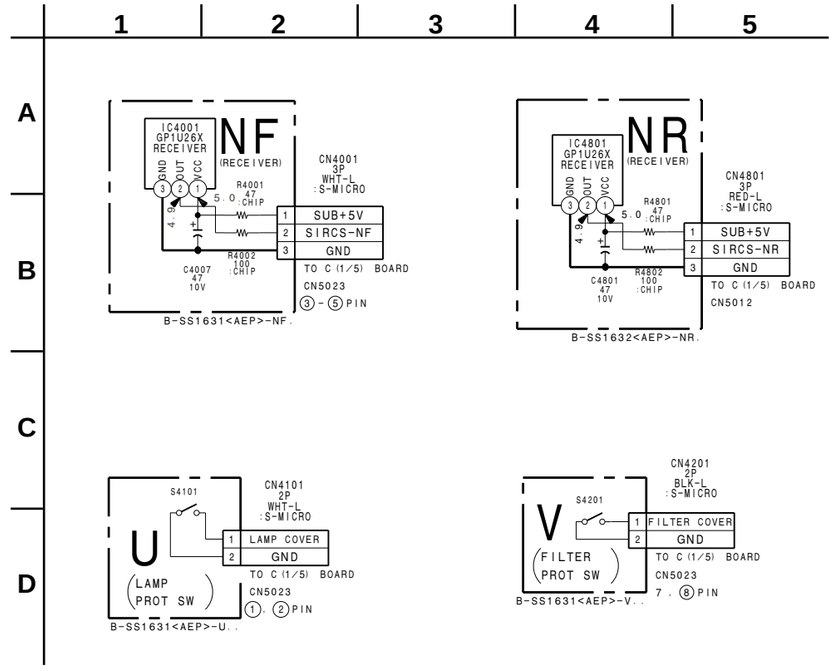


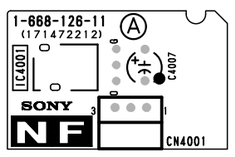
BA(3/3) BOARD IC2016 TDA4665T



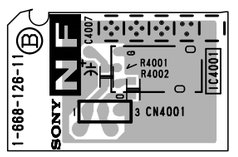
BA (3/3) BOARD WAVE PATTERN



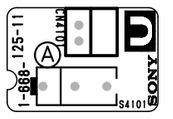




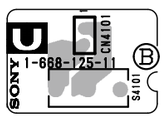
NF -A SIDE-
1-668-126-11



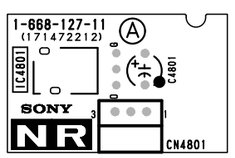
NF -B SIDE-
1-668-126-11



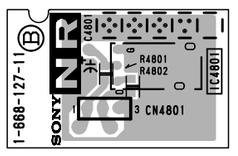
U -A SIDE-
1-668-125-11



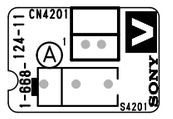
U -B SIDE-
1-668-125-11



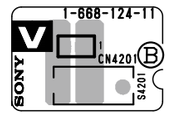
NR -A SIDE-
1-668-127-11



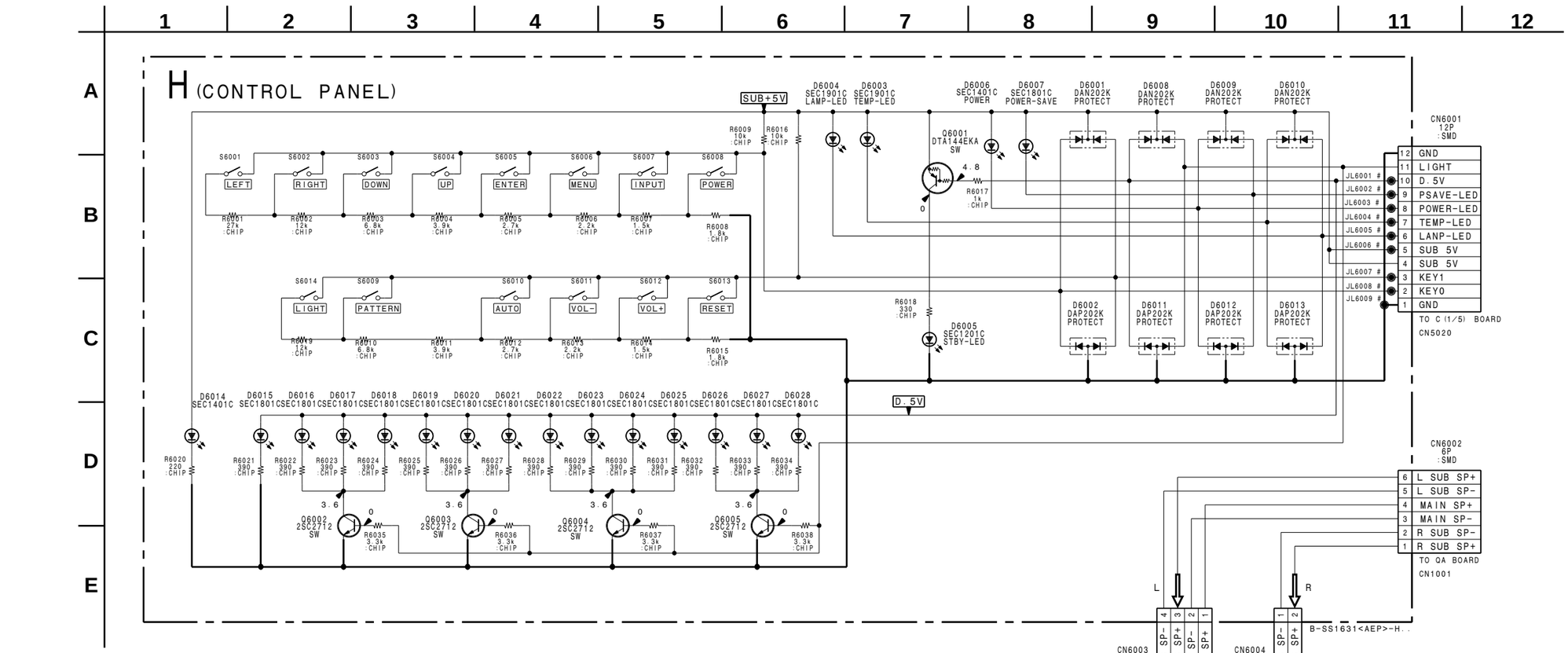
NR -B SIDE-
1-668-127-11

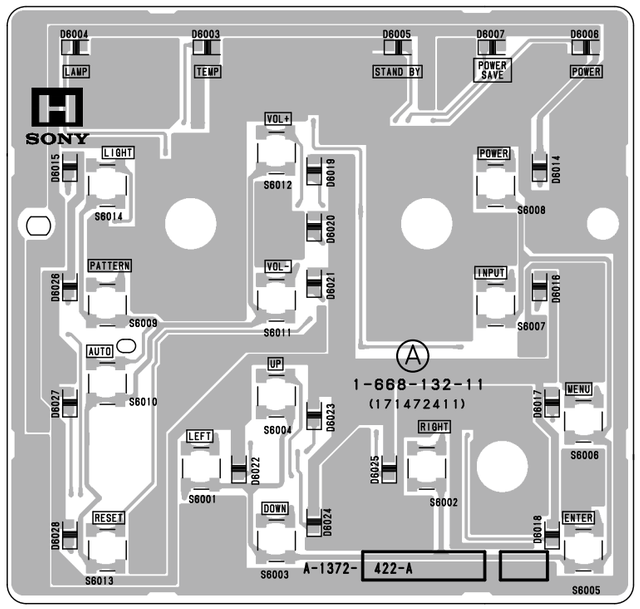


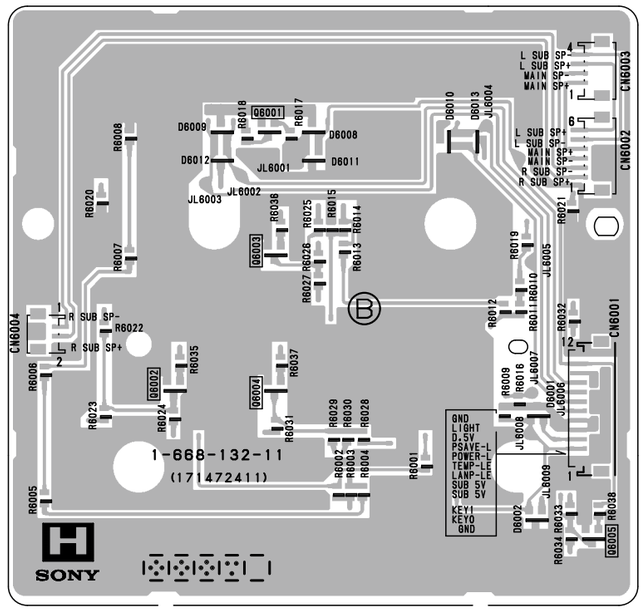
V -A SIDE-
1-668-124-11



V -B SIDE-
1-668-124-11

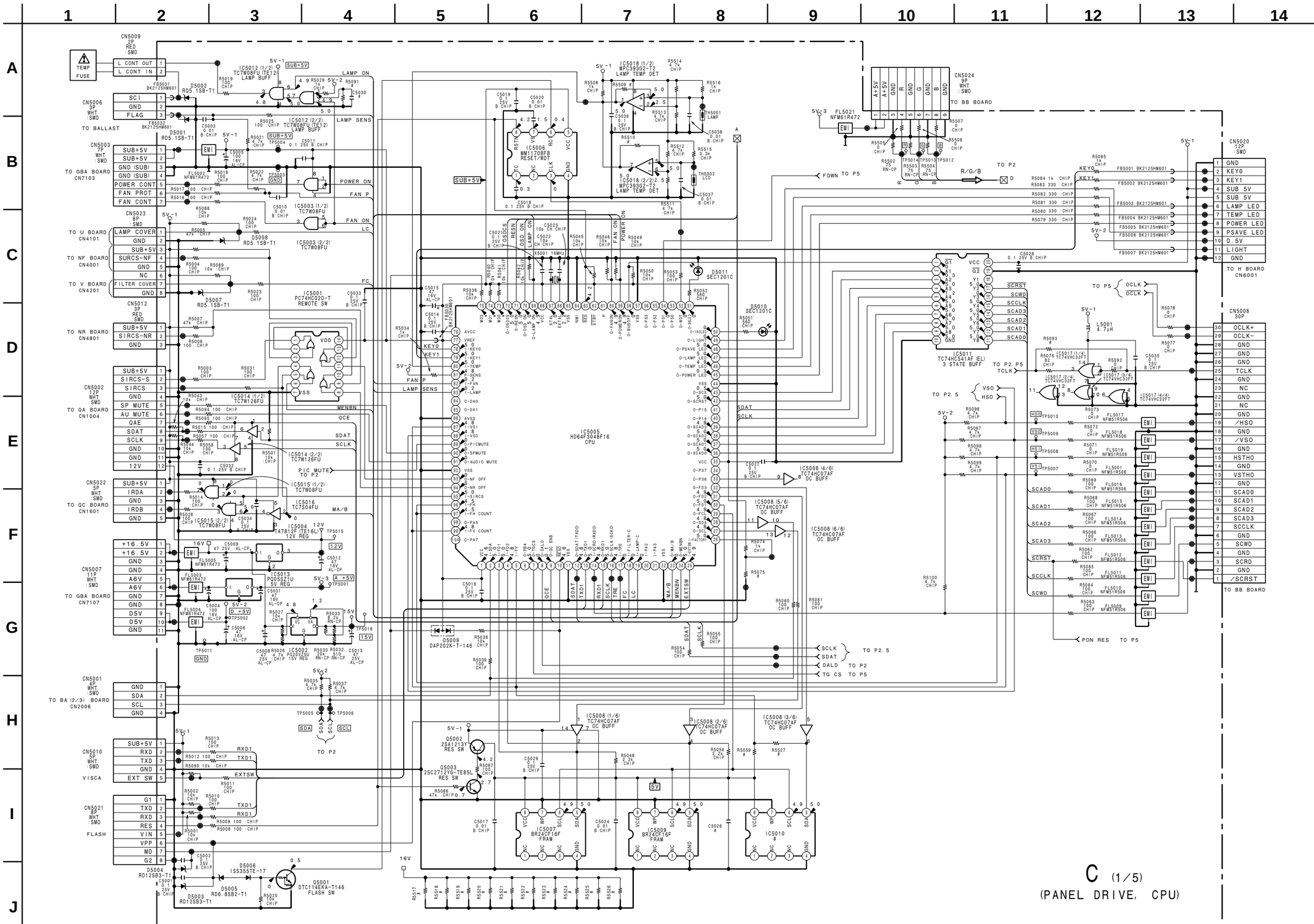






H -A SIDE-
1-668-132-11

H -B SIDE-
1-668-132-11


1
2
3
4
5
6
7
8
9
10
11
12
13
14
A
B
C
D
E
F
G
H
I
J
CN5009 2P RED :SMD
TEMP FUSE
L CONT OUT
L CONT IN
FB5031 BK2125HM601
D5002 RD5.1SB-T1
IC5012 (1/2) TC7W08FU(TE12) LAMP BUFF
LAMP ON
CN5006 3P WHT :SMD
SCI
GND
FLAG
TO BALLAST
FB5032 BK2125HM601
D5001 RD5.1SB-T1
IC5012 (2/2) TC7W08FU(TE12) LAMP BUFF
LAMP SENS
CN5003 7P WHT :SMD
SUB+5V
GND (SUB)
POWER CONT
FAN PROT
FAN CONT
TO GBA BOARD CN7103
FL5002 NFM61R472
IC5003 (1/2) TC7W08FU
POWER ON
FAN P
FAN ON
LC
CN5023 8P SMD
LAMP COVER
GND
SURCS-NF
NC
FILTER COVER
TO U BOARD CN4101
TO NF BOARD CN4001
TO V BOARD CN4201
D5008 RD5.1SB-T1
IC5003 (2/2) TC7W08FU
FC
CN5012 3P RED :SMD
SURCS-NR
TO NR BOARD CN4801
D5007 RD5.1SB-T1
IC5001 PC74HC02D-T REMOTE SW
VDD
VSS
MENBN
QCE
SDAT
SCLK
CN5002 12P WHT :SMD
SIRCS-S
SIRCS
SP MUTE
AU MUTE
QAE
12V
TO QA BOARD CN1004
IC5014 (1/2) TC7W126FU
IC5014 (2/2) TC7W126FU
P/C MUTE TO P2
IC5015 (1/2) TC7W08FU
CN5022 5P WHT :SMD
IRDA
IRDB
TO QC BOARD CN1601
IC5016 TC7S04FU
MA/B
IC5015 (2/2) TC7W08FU
IC5004 TA7812F (TE16L) 12V REG
CN5007 11P WHT :SMD
A6V
D5V
TO GBA BOARD CN7107
IC5013 PQ05SZ1U 5V REG
IC5002 PQ20VZ5U 15V REG
CN5001 4P WHT :SMD
SDA
SCL
TO BA (2/3) BOARD CN2006
CN5010 5P WHT :SMD
RXD
TXD
VISCA
EXT SW
CN5021 8P WHT :SMD
RES
VIN
VPP
MD
G2
FLASH
D5004 RD12SB3-T1
D5005 RD6.8SB2-T1
D5003 RD12SB3-T1
D5006 ISS355TE-17
Q5001 DTC114EKA-T146 FLASH SW
IC5018 (1/2) MPC393G2-T2 LAMP TEMP DET
IC5018 (2/2) MPC393G2-T2 LAMP TEMP DET
TH5001 LAMP
TH5002 LCD
IC5006 MM1170BFB RESET/WDT
IC5005 HD64F3048F16 CPU
X5001 16MHz
D5011 SEC1201C
D5010 SEC1201C
IC5011 TC74HC541AF (EL) 3 STATE BUFF
IC5008 (1/6) TC74HC07AF OC BUFF
IC5008 (2/6) TC74HC07AF OC BUFF
IC5008 (3/6) TC74HC07AF OC BUFF
IC5008 (4/6) TC74HC07AF OC BUFF
IC5008 (5/6) TC74HC07AF OC BUFF
IC5008 (6/6) TC74HC07AF OC BUFF
IC5007 BR24CF16F FRAM
IC5009 BR24CF16F FRAM
IC5010
D5009 DAP202K-T-146
Q5002 2SA1213Y RES SW
Q5003 2SC2712YG-TE85L RES SW
CN5024 9P WHT :SMD
TO BB BOARD
FL5021 NFM61R472
R/G/B
TO P2
FDWN TO P5
CN5020 12P :SMD
TO H BOARD CN6001
CN5008 30P
TO BB BOARD
L5001 4.7μH
IC5017 (1/4) TC74HC32FT
IC5017 (2/4) TC74HC32FT
IC5017 (3/4) TC74HC32FT
IC5017 (4/4) TC74HC32FT
IC5001 TC74HC541AF (EL) 3 STATE BUFF
TO P5
TO P2. P5
TO P2. 5
PON RES TO P5
SCLK
SDAT
DALD TO P2
TG CS TO P5
C (1/5)
(PANEL DRIVE, CPU)
B-SS1643<AEP>-C. .-P1

C (2/5) BOARD WAVE PATTERN

① 0.5Vp-p (H)

② 0.5Vp-p (H)

③ 0.5Vp-p (H)

④ 0.8Vp-p (H)

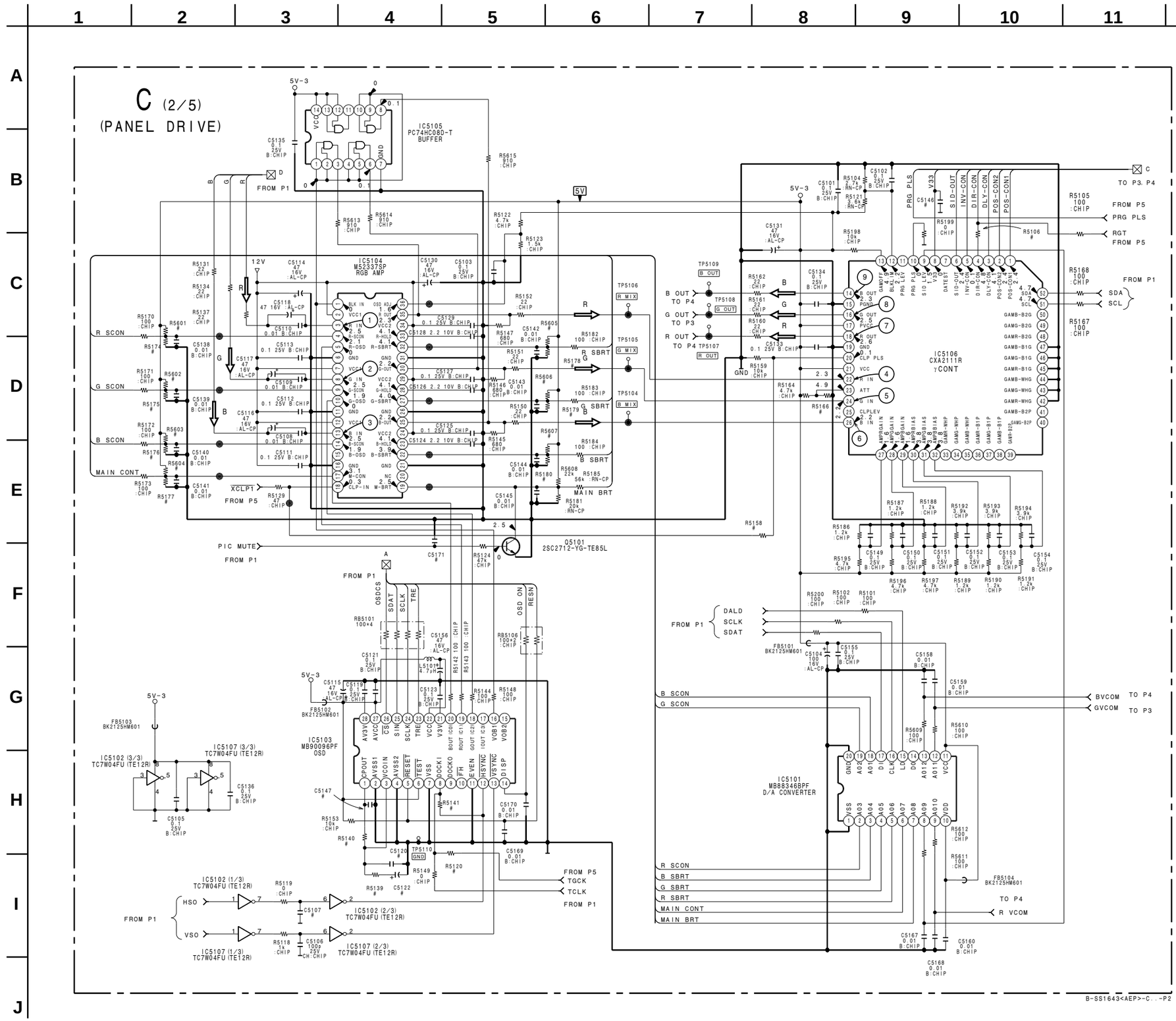
⑤ 0.8Vp-p (H)

⑥ 0.8Vp-p (H)

⑦ 1.0Vp-p (H)

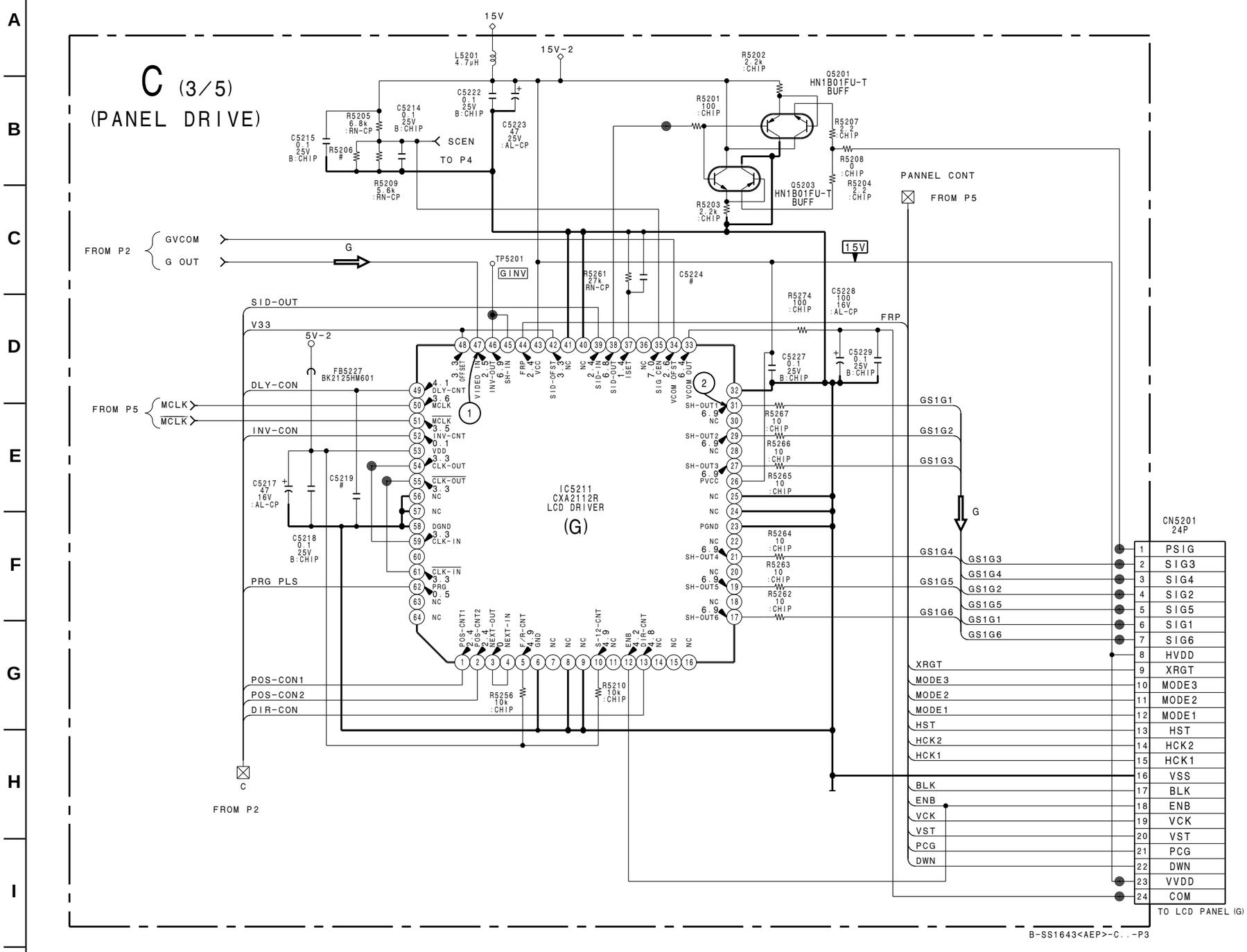
⑧ 1.0Vp-p (H)

⑨ 1.0Vp-p (H)

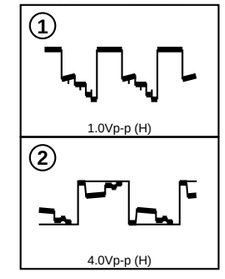


http://getMANUAL.com

C (3/5)
(PANEL DRIVE)



C (3/5) BOARD WAVE PATTERN



C (4/5)
(PANEL DRIVE)

PANNEL CONT
FROM P5

FROM P2 BVCOM
FROM P3 SCEN
FROM P2 B OUT

FROM P2 R VCOM
FROM P3 SCEN
FROM P2 R OUT

IC5302
CXA2112R
LCD DRIVER
(B)

IC5305
CXA2112R
LCD DRIVER
(R)

CN5301
24P

1	PSIG
2	SIG4
3	SIG3
4	SIG5
5	SIG2
6	SIG6
7	SIG1
8	HVDD
9	RGT
10	MODE3
11	MODE2
12	MODE1
13	HST
14	HCK1
15	HCK2
16	VSS
17	BLK
18	ENB
19	VCK
20	VST
21	PCG
22	DWN
23	VVDD
24	COM

TO LCD PANEL (B)

CN5302
24P

1	PSIG
2	SIG4
3	SIG3
4	SIG5
5	SIG2
6	SIG6
7	SIG1
8	HVDD
9	RGT
10	MODE3
11	MODE2
12	MODE1
13	HST
14	HCK1
15	HCK2
16	VSS
17	BLK
18	ENB
19	VCK
20	VST
21	PCG
22	DWN
23	VVDD
24	COM

TO LCD PANEL (R)

B-SS1643<AEP>-C...-P4

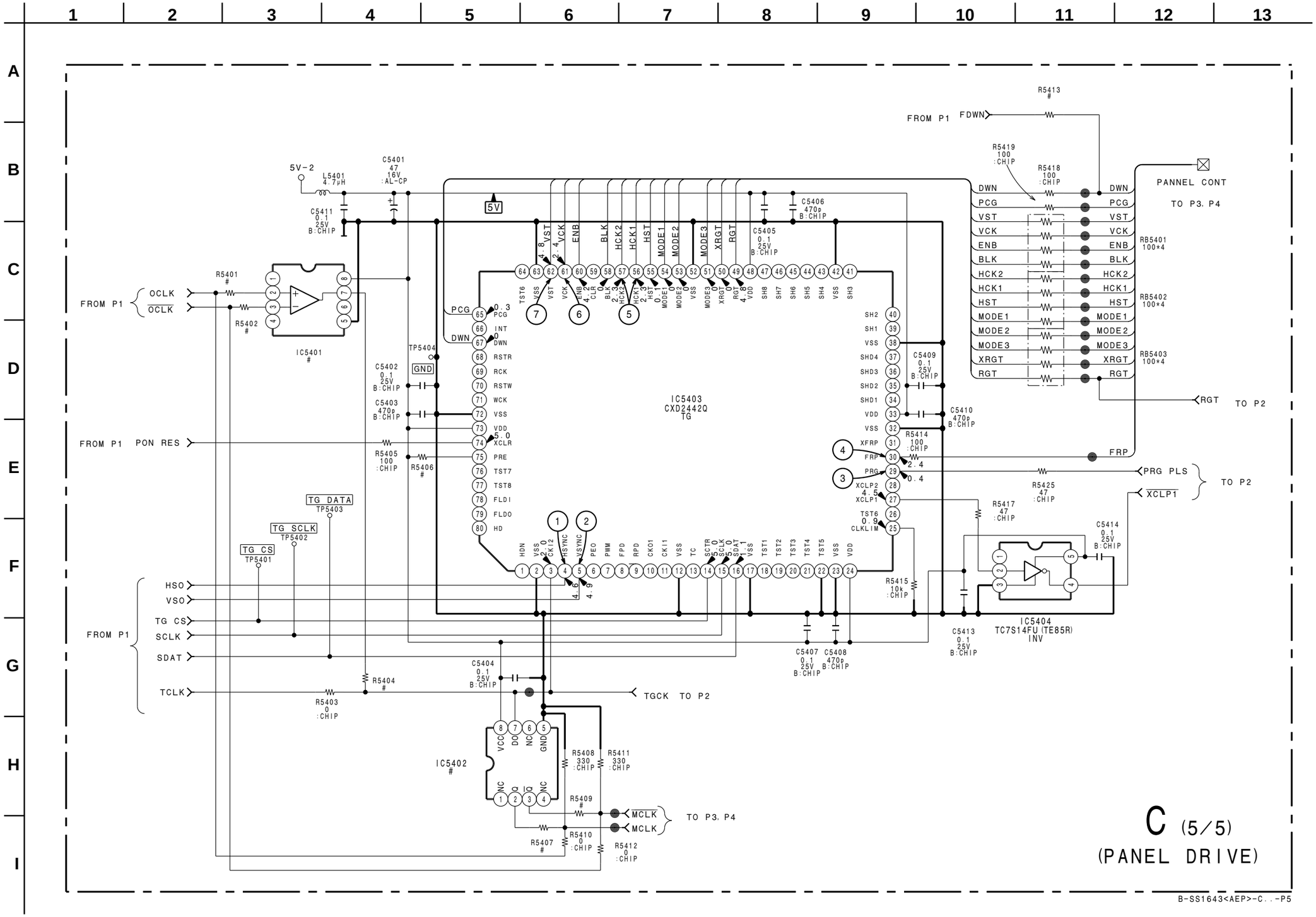
C (4/5) BOARD WAVE PATTERN

① 1.0Vp-p (H)

② 8.0Vp-p (H)

③ 1.0Vp-p (H)

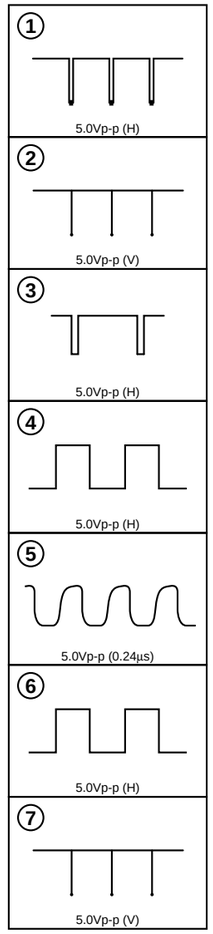
④ 9.0Vp-p (H)



C (5/5)
(PANEL DRIVE)

B-SS1643<AEP>-C..-P5

C (5/5) BOARD
WAVE PATTERN



C BOARD

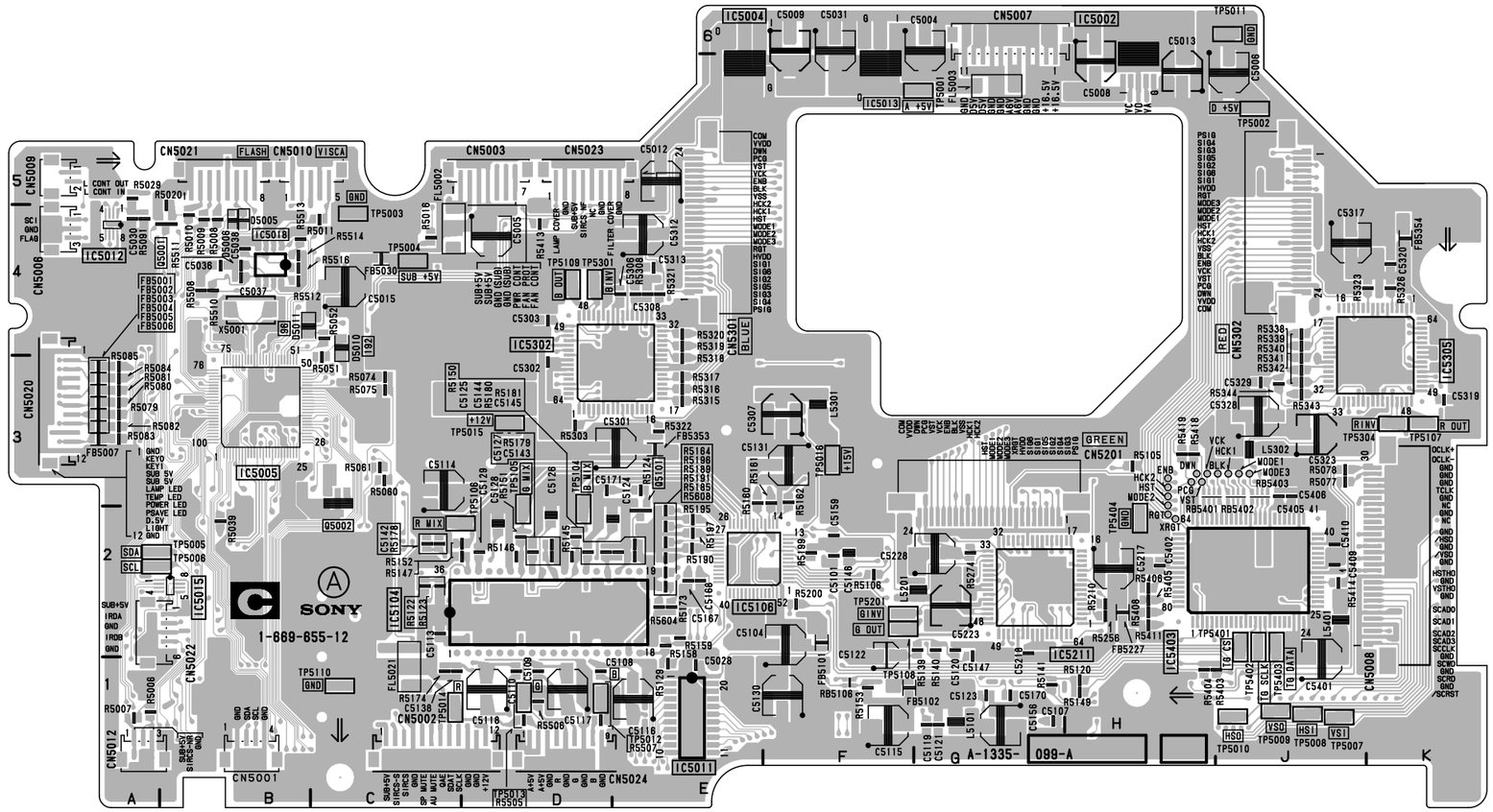
*: B SIDE

*IC5001 B-2
 IC5002 H-6
*IC5003 C-4
 IC5004 E-5
 IC5005 B-3
*IC5006 C-4
*IC5007 B-2
*IC5008 C-3
*IC5009 B-2
 IC5011 E-1
 IC5012 A-4
 IC5013 F-5
*IC5014 B-1
 IC5015 B-2
*IC5016 A-2
*IC5017 J-3
 IC5018 B-4
*IC5101 E-2
*IC5102 H-1
*IC5103 G-1
 IC5104 D-2
*IC5105 C-2
 IC5106 E-2
*IC5107 H-2
 IC5211 G-2
 IC5302 D-3
 IC5305 K-3
 IC5403 J-2
*IC5404 J-2

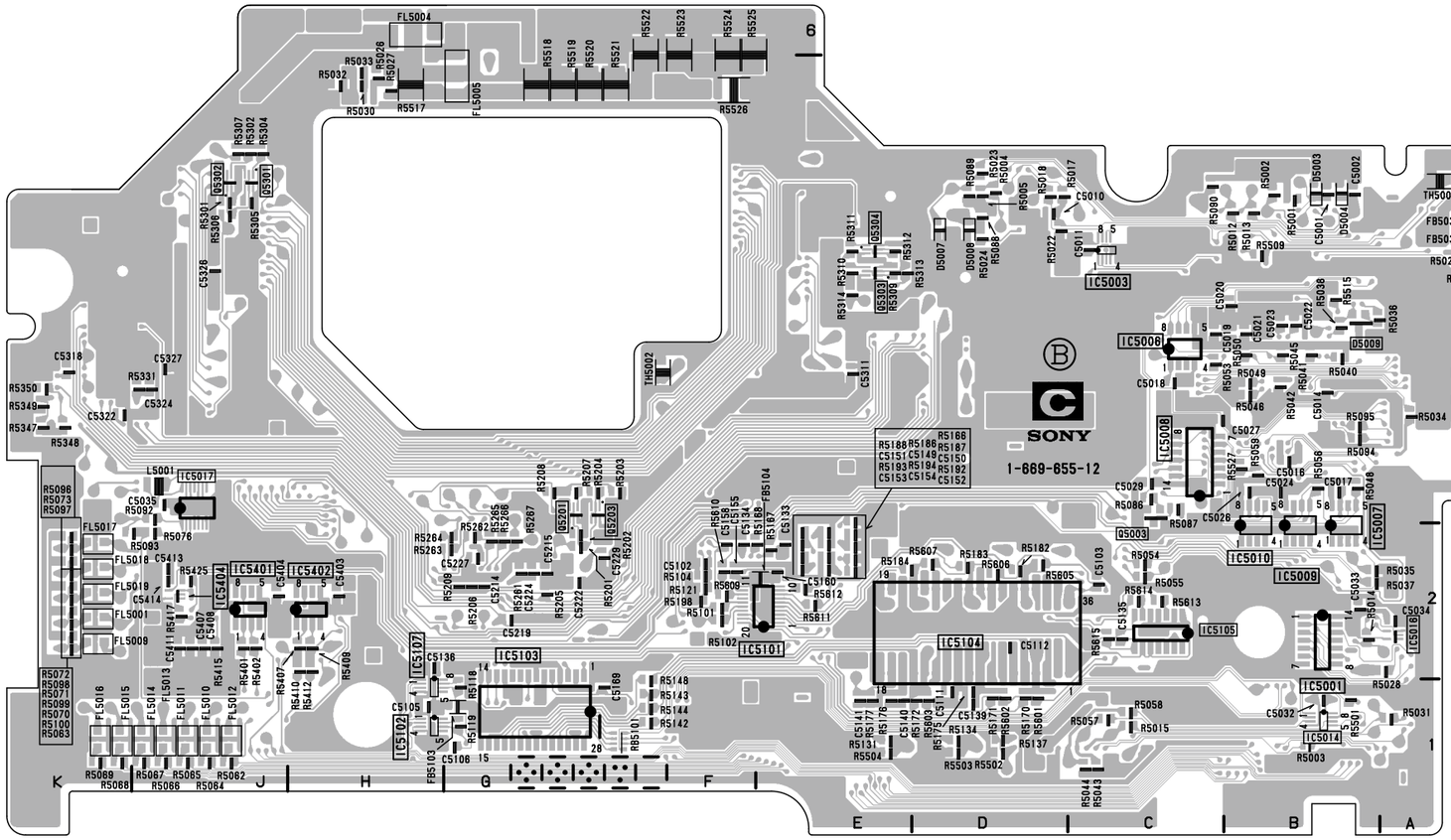
 Q5001 B-4
 Q5002 C-2
*Q5003 C-3
 Q5101 E-2
*Q5201 G-3
*Q5203 F-3
*Q5301 J-5
*Q5302 J-5
*Q5303 E-4
*Q5304 E-4

*D5001 A-4
*D5002 A-4
*D5003 B-5
*D5004 B-5
 D5005 B-4
 D5006 B-4
*D5007 D-4
*D5008 D-4
*D5009 B-4
 D5010 C-4
 D5011 B-4

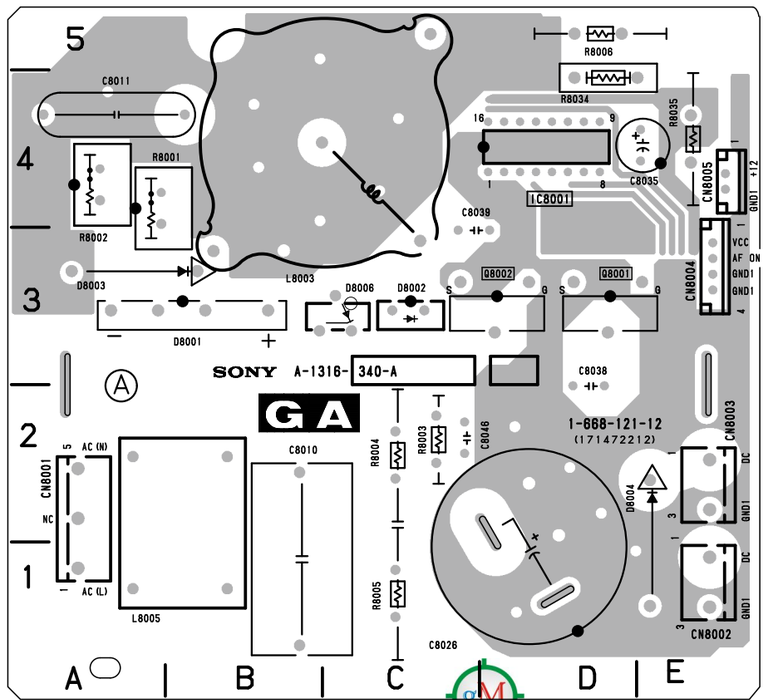
 TP5001 G-5
 TP5002 J-5
 TP5003 C-4
 TP5004 C-4
 TP5005 B-2
 TP5006 B-2
 TP5007 J-1
 TP5008 J-1
 TP5009 J-1
 TP5010 J-1
 TP5011 J-6
 TP5012 D-1
 TP5013 D-1
 TP5014 C-1
 TP5015 D-3
 TP5016 F-3
 TP5104 D-3
 TP5105 D-3
 TP5106 D-2
 TP5107 K-3
 TP5108 F-2
 TP5109 D-4
 TP5110 C-1
 TP5201 F-2
 TP5301 D-4
 TP5304 K-3
 TP5401 J-2
 TP5402 J-2
 TP5403 J-2
 TP5404 H-2



C -A SIDE-
1-669-655-12

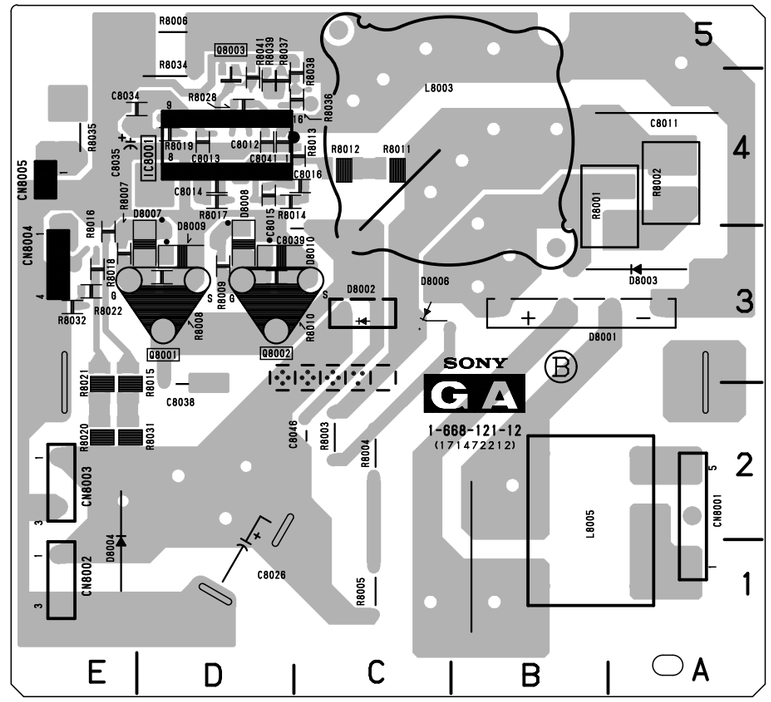


C **-B SIDE-**
1-669-655-12



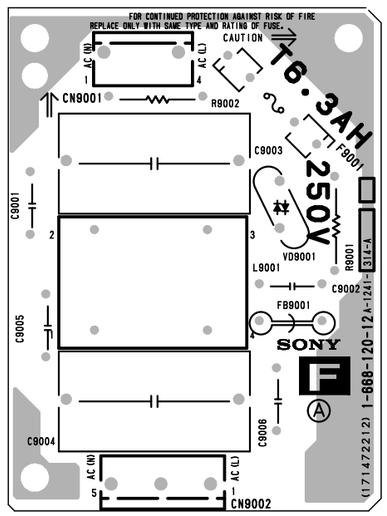
GA -A SIDE-

1-668-121-12



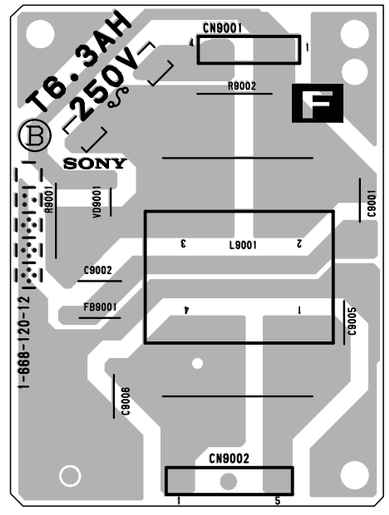
GA -B SIDE-

1-668-121-12



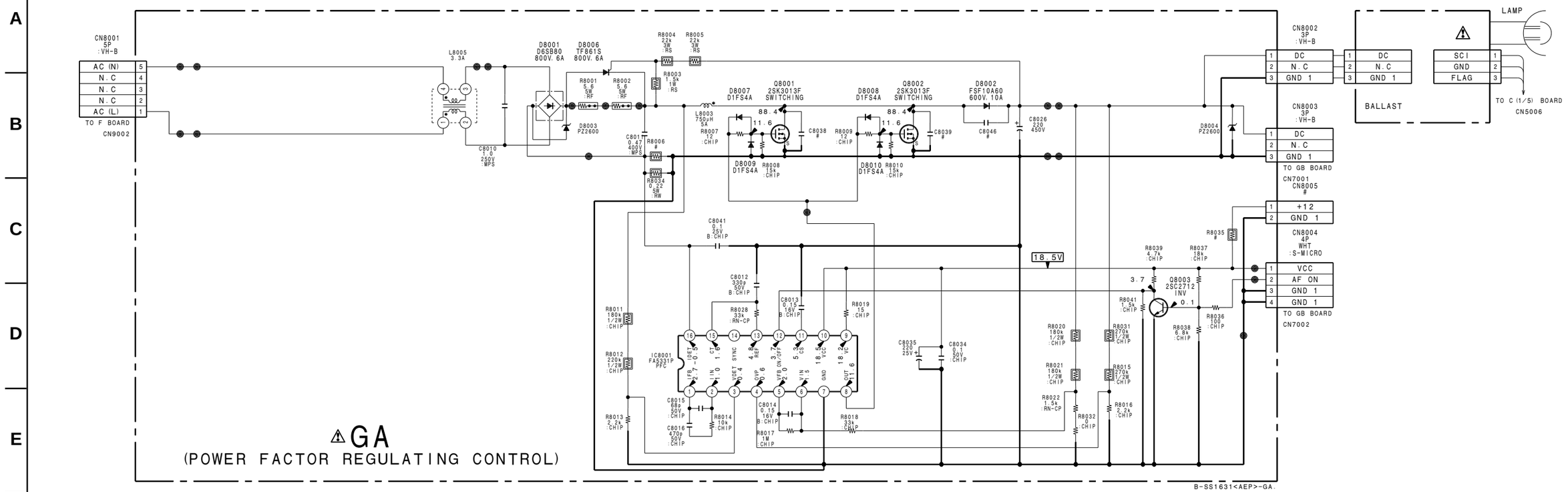
F -A SIDE-

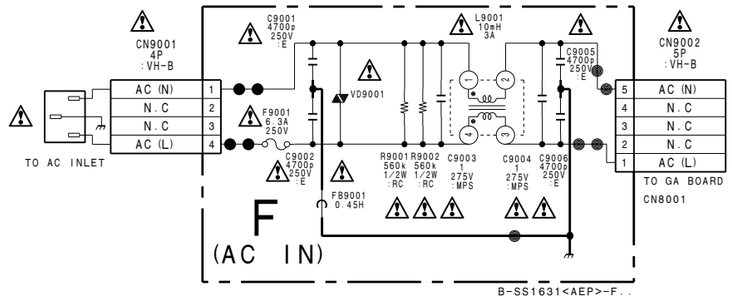
1-668-120-12

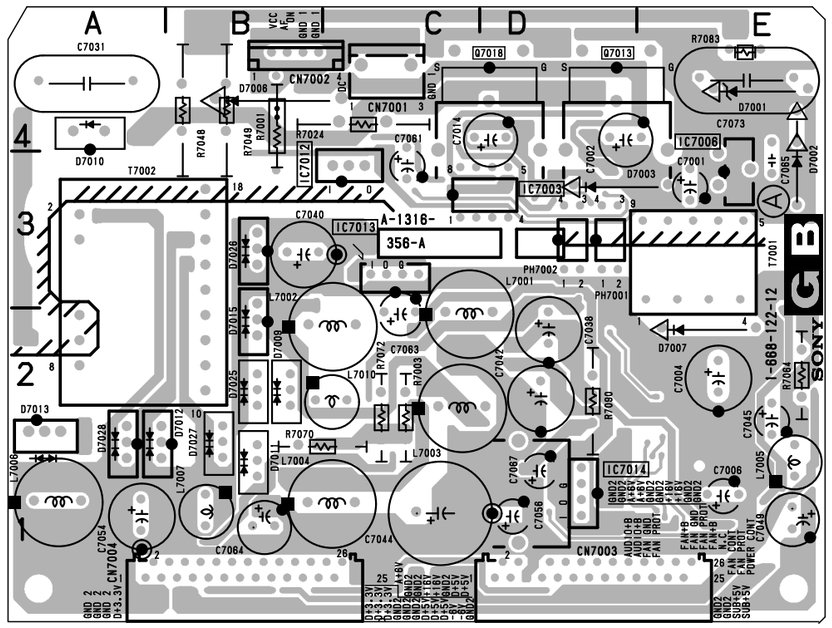


F -B SIDE-

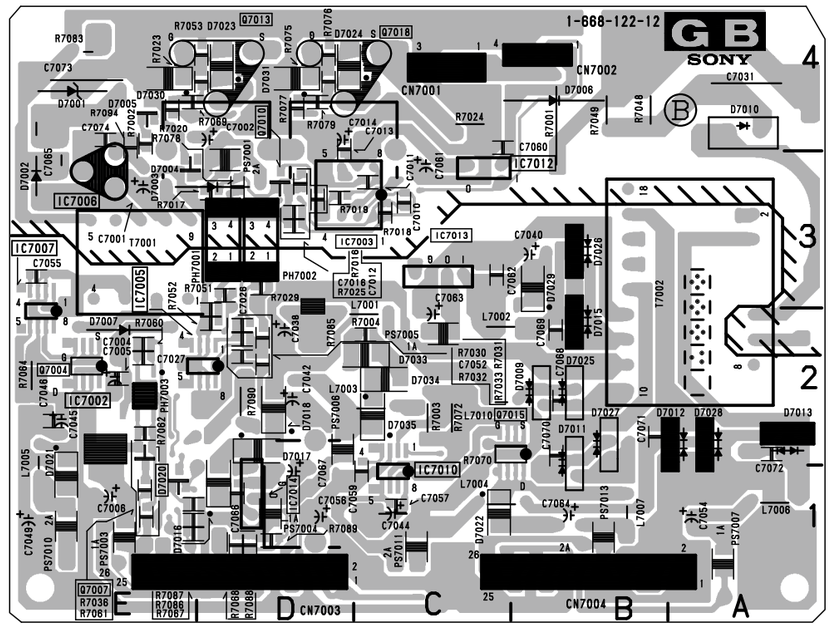
1-668-120-12


CN8001
5P
:VH-B
AC (N) 5
N.C 4
N.C 3
N.C 2
AC (L) 1
TO F BOARD
CN9002
L8005
3.3A
D8001
D6SB80
800V. 6A
D8006
TF861S
800V. 6A
R8004
22k
3W
:RS
R8005
22k
3W
:RS
R8001
5.6
5W
:RF
R8002
5.6
5W
:RF
R8003
1.5k
1W
:RS
D8003
PZ2600
C8010
1.0
250V
:MPS
C8011
0.47
400V
:MPS
R8006
#
R8034
0.22
5W
:RW
L8003
750uH
5A
D8007
D1FS4A
Q8001
2SK3013F
SWITCHING
88.4
11.6
C8038
#
R8007
12
:CHIP
D8009
D1FS4A
R8008
15k
:CHIP
D8008
D1FS4A
Q8002
2SK3013F
SWITCHING
88.4
11.6
C8039
#
R8009
12
:CHIP
D8010
D1FS4A
R8010
15k
:CHIP
D8002
FSF10A60
600V. 10A
C8046
#
C8026
220
450V
D8004
PZ2600
CN8002
3P
:VH-B
DC 1
N.C 2
GND 1 3
BALLAST
LAMP
SCI 1
GND 2
FLAG 3
TO C (1/5) BOARD
CN5006
CN8003
3P
:VH-B
DC 1
N.C 2
GND 1 3
TO GB BOARD
CN7001
CN8005
#
+12 1
GND 1 2
CN8004
4P
WHT
:S-MICRO
VCC 1
AF ON 2
GND 1 3
GND 1 4
TO GB BOARD
CN7002
C8041
0.1
25V
B.CHIP
18.5V
R8039
4.7k
:CHIP
R8037
18k
:CHIP
R8035
#
3.7
Q8003
2SC2712
INV
0.1
R8041
1.5k
:CHIP
R8038
6.8k
:CHIP
R8036
100
:CHIP
C8012
330p
50V
B.CHIP
R8028
33k
:RN-CP
C8013
0.15
16V
B.CHIP
R8019
15
:CHIP
R8011
180k
1/2W
:CHIP
R8012
220k
1/2W
:CHIP
IC8001
FA5331P
PFC
VFB/DET 2.7-0.5
CT 1.6
LIN 1.1
VDET/SYNC 0.4
OVP 0.6
REF 4.8
VFB/ON/OFF 2.0
VIN 3.7
MPX/VCC 5.9
GND 18.5
OUT 12.2
VCC 11.6
C8015
68p
50V
:CHIP
C8016
470p
50V
:CHIP
R8014
10k
:CHIP
R8013
2.2k
:CHIP
C8014
0.15
16V
B.CHIP
R8017
1W
:CHIP
R8018
33k
:CHIP
C8035
220
25V
C8034
0.1
50V
:CHIP
R8020
180k
1/2W
:CHIP
R8021
180k
1/2W
:CHIP
R8022
1.5k
:RN-CP
R8032
0
:CHIP
R8031
270k
1/2W
:CHIP
R8015
270k
1/2W
:CHIP
R8016
2.2k
:CHIP
⚠GA
(POWER FACTOR REGULATING CONTROL)
B-SS1631<AEP>-GA.

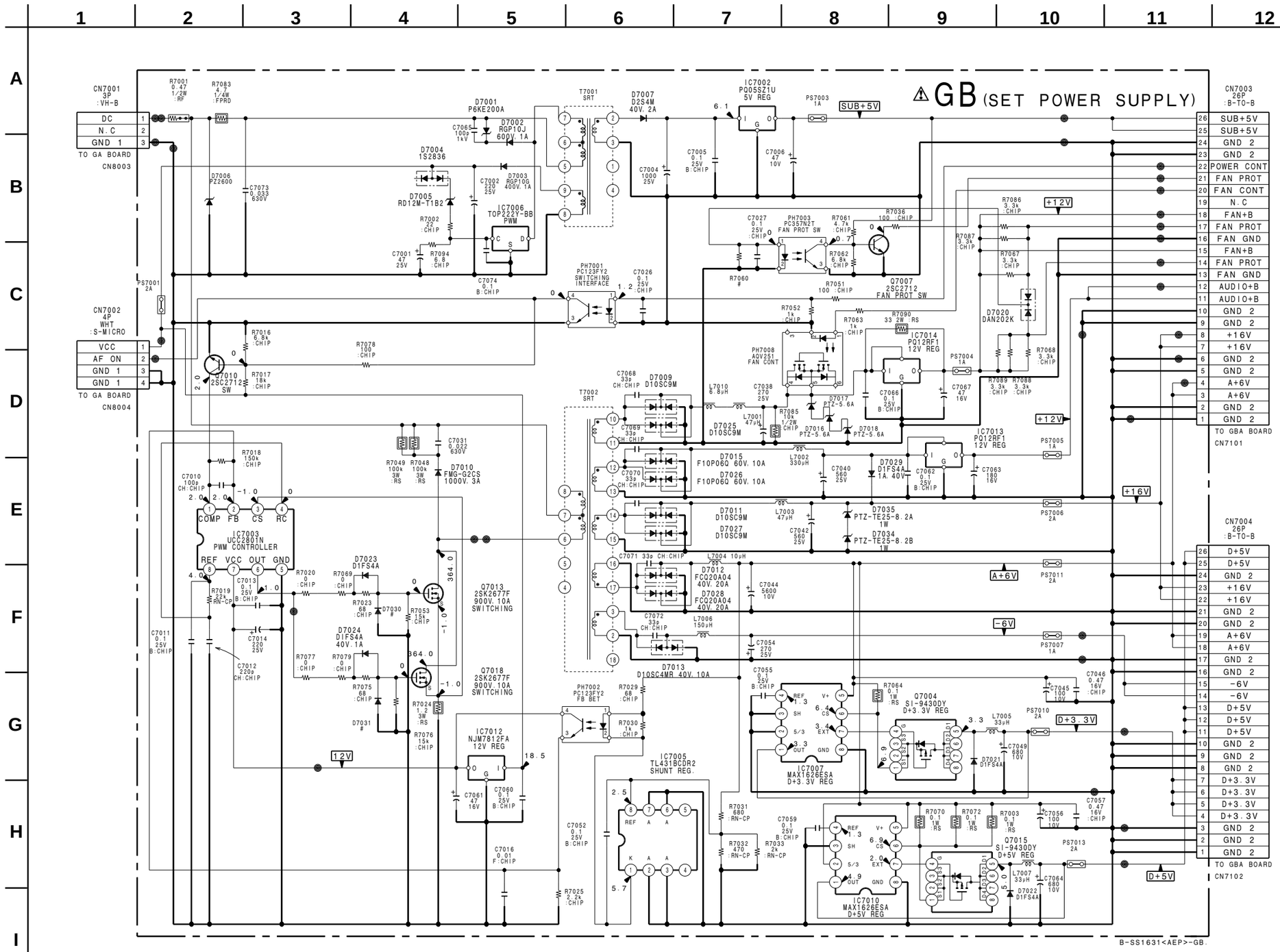

CN9001
4P
:VH-B
AC (N) 1
N.C 2
N.C 3
AC (L) 4
TO AC INLET
C9001
4700p
250V
:E
F9001
6.3A
250V
C9002
4700p
250V
:E
VD9001
FB9001
0.45H
L9001
10mH
3A
R9001
560k
1/2W
:RC
R9002
560k
1/2W
:RC
C9003
1
275V
:MPS
C9004
1
275V
:MPS
C9005
4700p
250V
:E
C9006
4700p
250V
:E
CN9002
5P
:VH-B
5 AC (N)
4 N.C
3 N.C
2 N.C
1 AC (L)
TO GA BOARD
CN8001
F
(AC IN)
B-SS1631<AEP>-F..

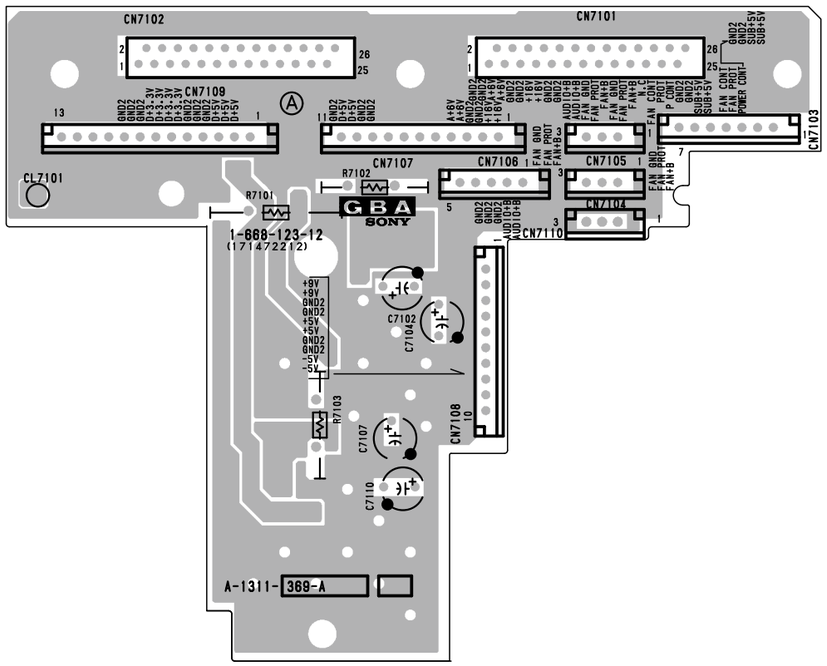


GB -A SIDE-
1-668-122-12



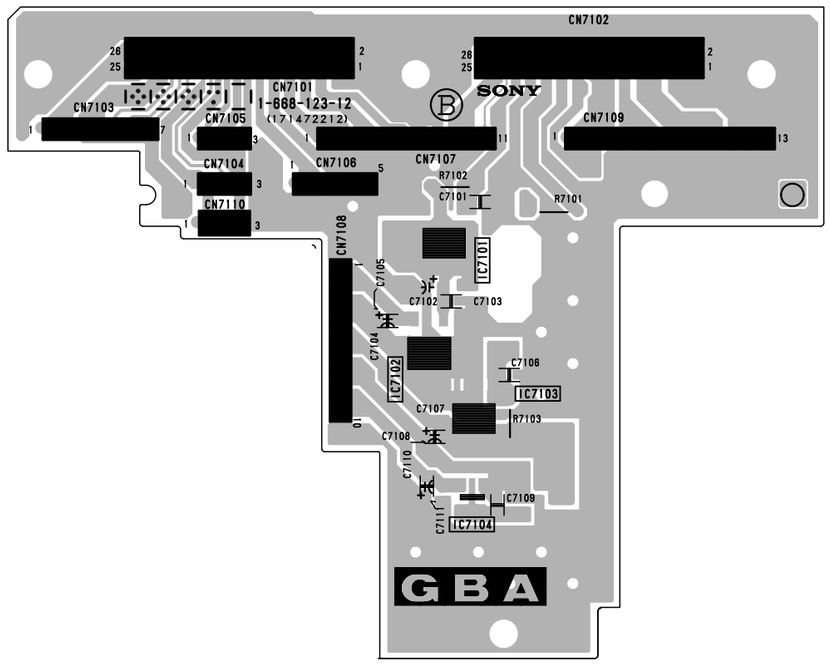
GB -B SIDE-
1-668-122-12


⚠GB (SET POWER SUPPLY)
CN7001 3P :VH-B
DC
N.C
GND 1
TO GA BOARD CN8003
CN7002 4P WHT :S-MICRO
VCC
AF ON
GND 1
GND 1
TO GA BOARD CN8004
CN7003 26P :B-TO-B
SUB+5V
SUB+5V
GND 2
GND 2
POWER CONT
FAN PROT
FAN CONT
N.C
FAN+B
FAN PROT
FAN GND
FAN+B
FAN PROT
FAN GND
AUDIO+B
AUDIO+B
GND 2
GND 2
+16V
+16V
GND 2
GND 2
A+6V
A+6V
GND 2
GND 2
TO GBA BOARD CN7101
CN7004 26P :B-TO-B
D+5V
D+5V
GND 2
+16V
+16V
GND 2
A+6V
A+6V
GND 2
GND 2
-6V
-6V
D+5V
D+5V
D+5V
GND 2
GND 2
GND 2
D+3.3V
D+3.3V
D+3.3V
D+3.3V
GND 2
GND 2
GND 2
TO GBA BOARD CN7102
IC7003 UCC2801N PWM CONTROLLER
REF VCC OUT GND
COMP FB CS RC
IC7006 TOP222Y-BB PWM
IC7012 NJM7812FA 12V REG
IC7013 PQ12RF1 12V REG
IC7014 PQ12RF1 12V REG
IC7005 TL431BCDR2 SHUNT REG.
IC7007 MAX1626ESA D+3.3V REG
IC7010 MAX1626ESA D+5V REG
Q7013 2SK2677F 900V, 10A SWITCHING
Q7018 2SK2677F 900V, 10A SWITCHING
Q7007 2SC2712 FAN PROT SW
Q7004 SI-9430DY D+3.3V REG
Q7015 SI-9430DY D+5V REG
Q7010 2SC2712 SW
PH7001 PC123FY2 SWITCHING INTERFACE
PH7002 PC123FY2 FB BET
PH7003 PC357N2T FAN PROT SW
PH7008 AQV251 FAN CONT
T7001 SRT
T7002 SRT
IC7002 PQ05SZ1U 5V REG
D7001 P6KE200A
D7002 RGP10J 600V, 1A
D7003 RGP10G 400V, 1A
D7004 1S2836
D7005 RD12M-T1B2
D7006 PZ2600
D7007 D2S4M 40V, 2A
D7009 D10SC9M
D7010 FMG-G2CS 1000V, 3A
D7011 D10SC9M
D7012 FCQ20A04 40V, 20A
D7013 D10SC4MR 40V, 10A
D7015 F10P06Q 60V, 10A
D7017 PTZ-5.6A
D7018 PTZ-5.6A
D7020 DAN202K
D7021 D1FS4A
D7022 D1FS4A
D7023 D1FS4A
D7024 D1FS4A
D7025 D10SC9M
D7026 F10P06Q 60V, 10A
D7027 D10SC9M
D7028 FCQ20A04 40V, 20A
D7029 D1FS4A 1A, 40V
D7030 #
D7031 #
D7034 PTZ-TE25-8.2B 1W
D7035 PTZ-TE25-8.2A 1W
PS7001 2A
PS7003 1A
PS7004 1A
PS7005 1A
PS7006 2A
PS7007 1A
PS7010 2A
PS7011 2A
PS7013 2A
L7001 47μH
L7002 330μH
L7003 47μH
L7004 10μH
L7005 33μH
L7006 150μH
L7007 33μH
L7010 8.8μH
+12V
+16V
A+6V
-6V
D+3.3V
D+5V
12V
B-SS1631<AEP>-GB.



GBA -A SIDE-

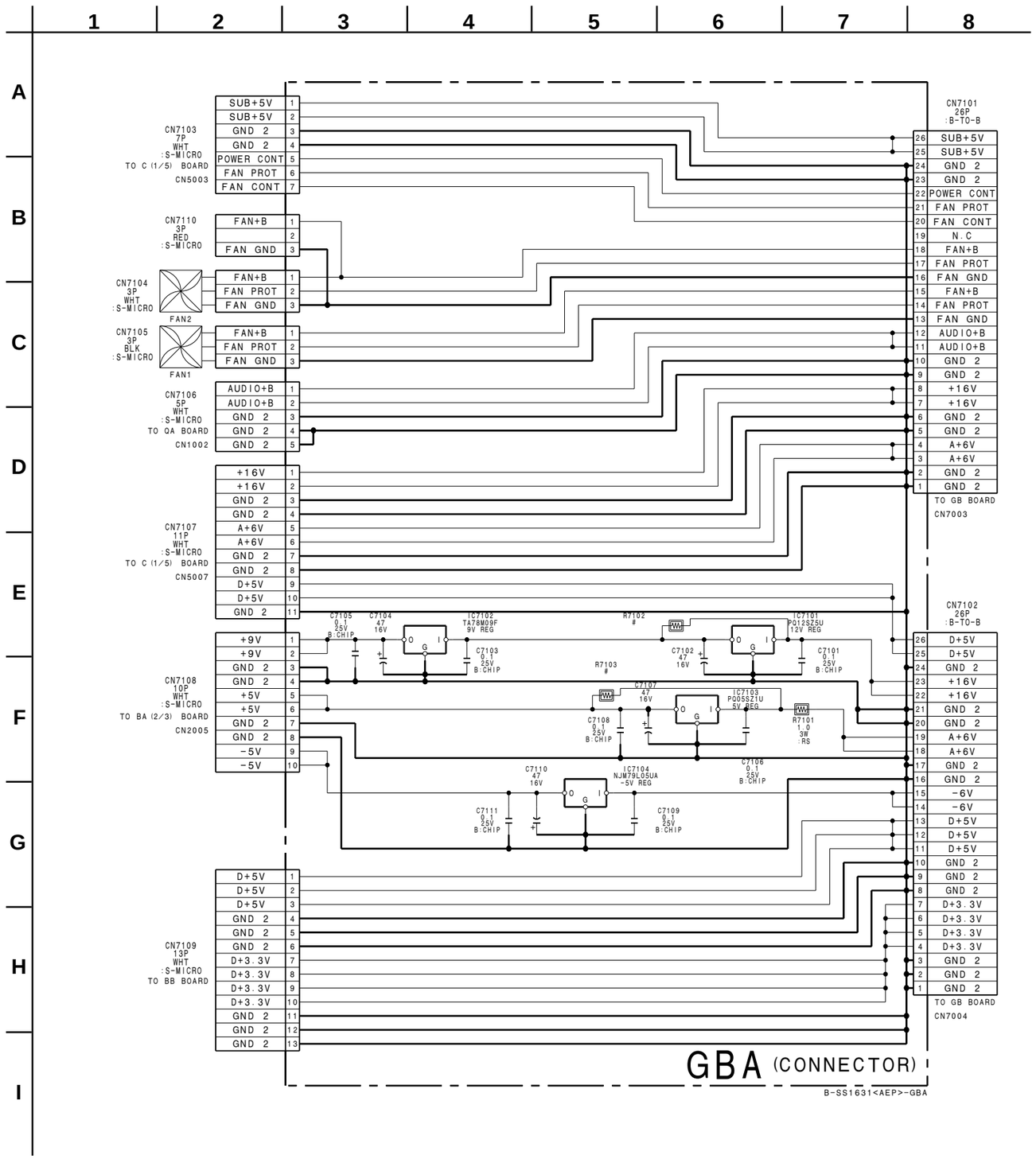
1-668-123-12

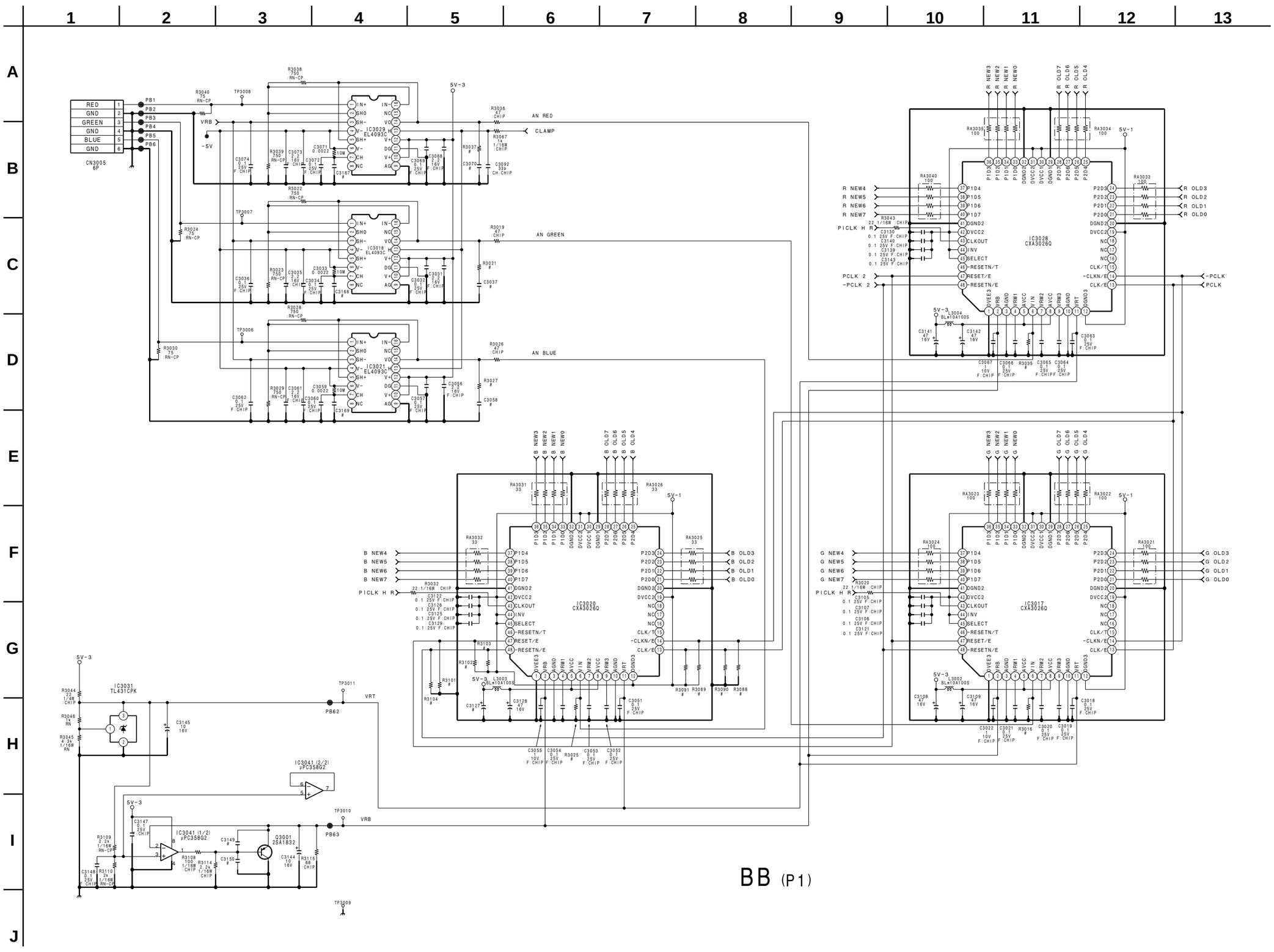


GBA -B SIDE-

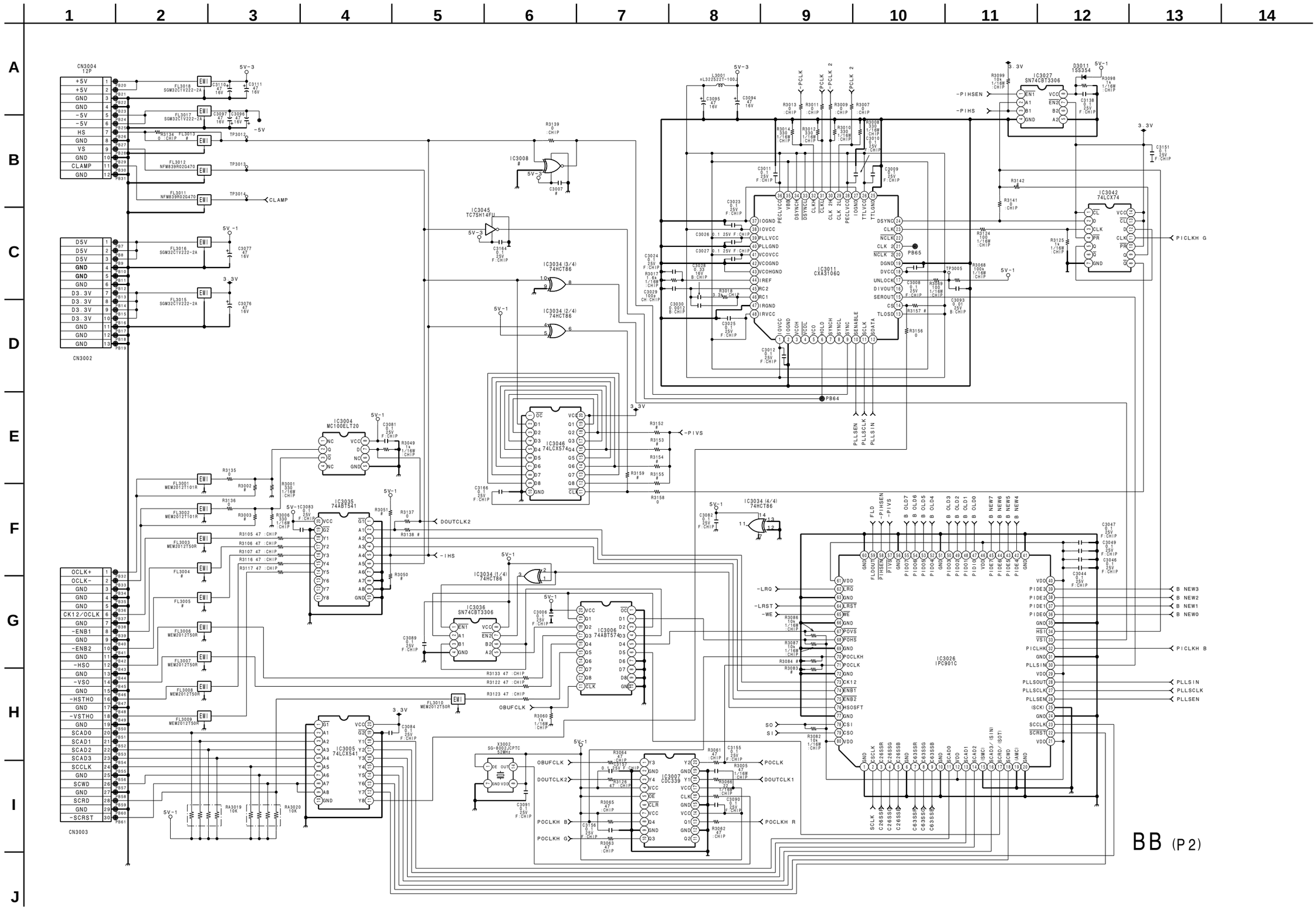
1-668-123-12

http://getMANUAL.com

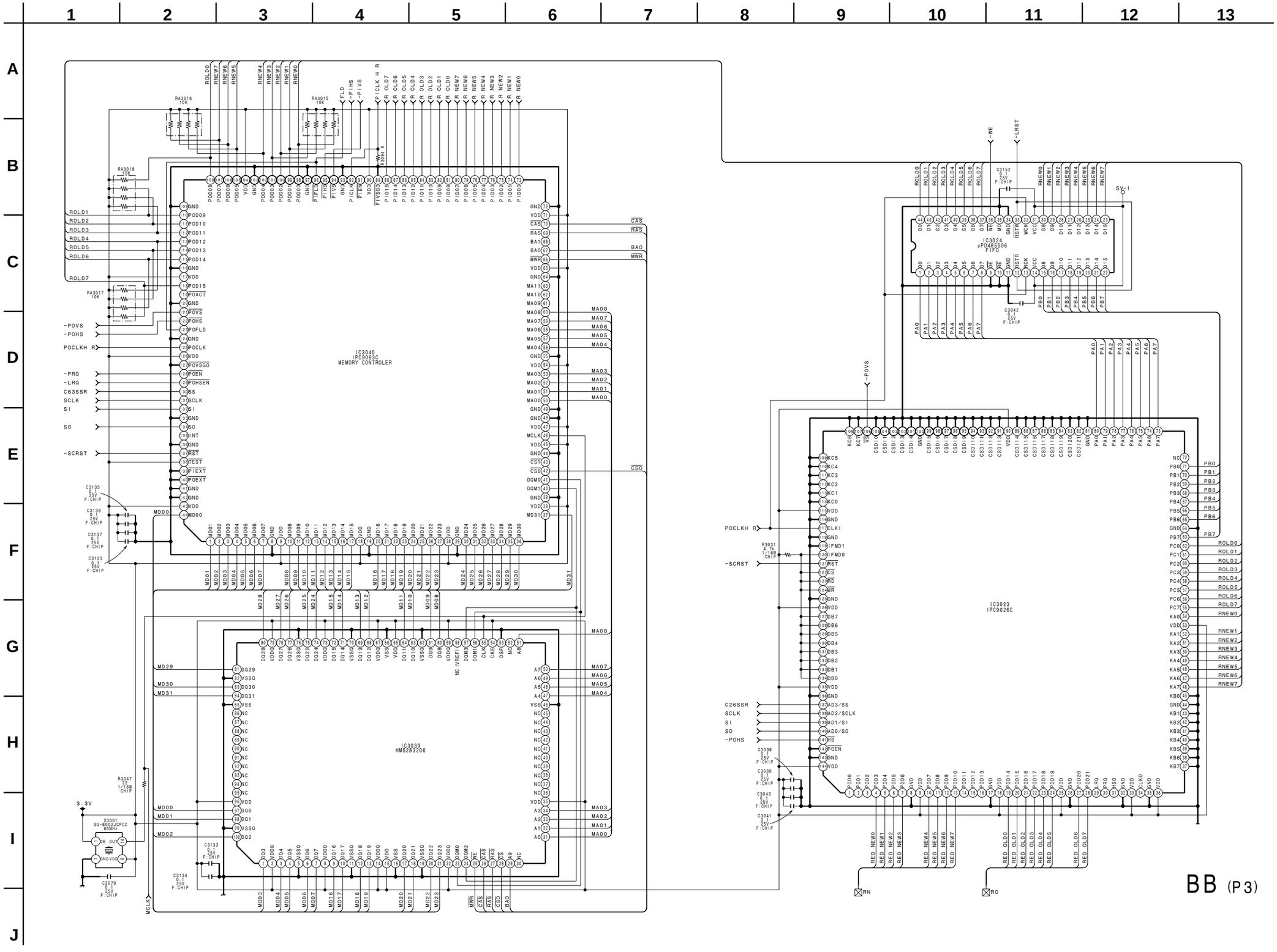


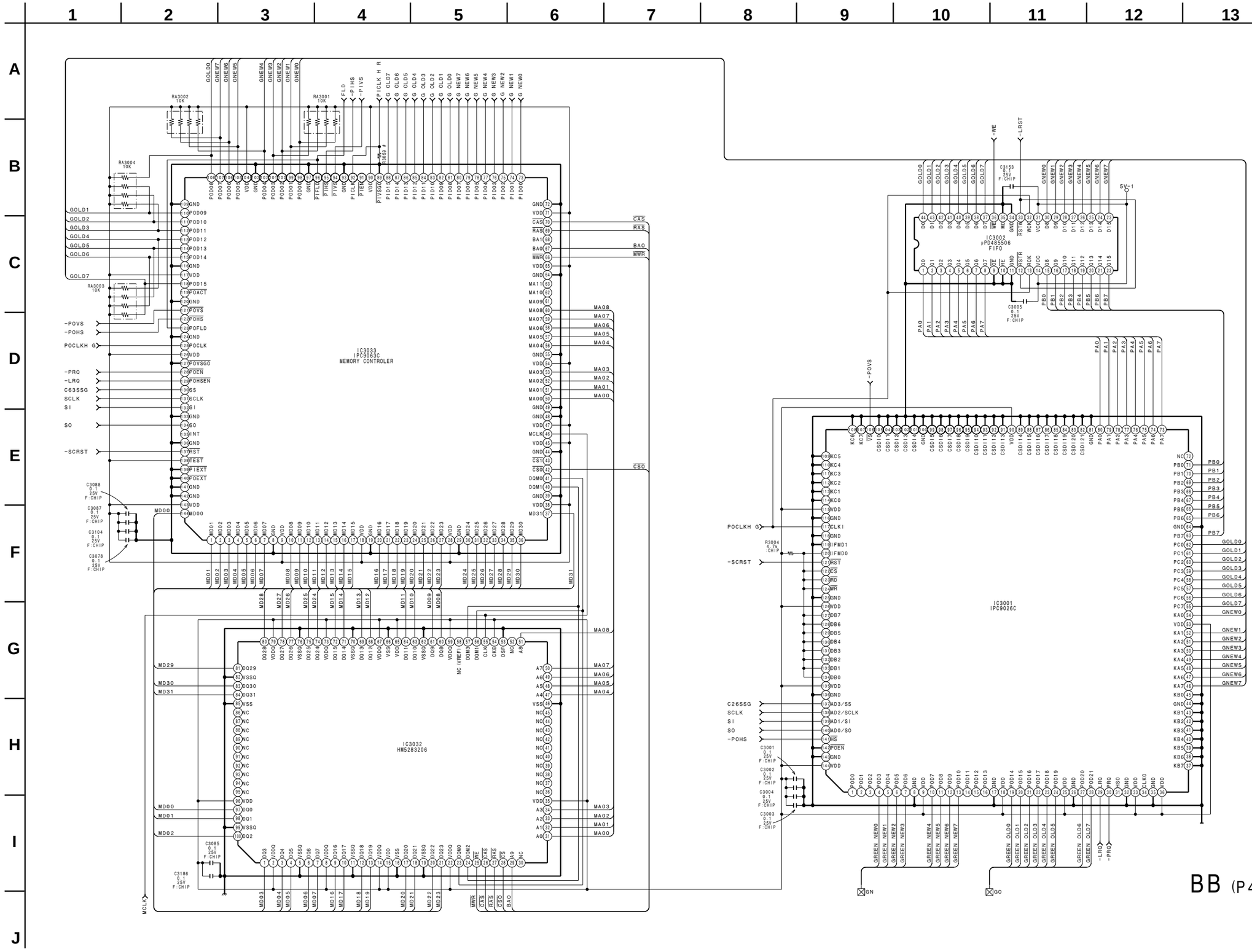

1 2 3 4 5 6 7 8 9 10 11 12 13
A B C D E F G H I J
CN3005 6P
RED GND GREEN GND BLUE GND
PB1 PB2 PB3 PB4 PB5 PB6
AN RED
AN GREEN
AN BLUE
CLAMP
VRB
VRT
-5V
5V-3
5V-1
IC3029 EL4093C
IC3018 EL4093C
IC3021 EL4093C
IC3028 CXA3026Q
IC3020 CXA3026Q
IC3017 CXA3026Q
IC3031 TL431CPK
IC3041 (2/2) µPC358G2
IC3041 (1/2) µPC358G2
Q3001 2SA1832
L3004 BL#10A100S
L3003 BL#10A100S
L3002 BL#10A100S
R NEW0 R NEW1 R NEW2 R NEW3 R NEW4 R NEW5 R NEW6 R NEW7
R OLD4 R OLD5 R OLD6 R OLD7 R OLD0 R OLD1 R OLD2 R OLD3
B NEW0 B NEW1 B NEW2 B NEW3 B NEW4 B NEW5 B NEW6 B NEW7
B OLD4 B OLD5 B OLD6 B OLD7 B OLD0 B OLD1 B OLD2 B OLD3
G NEW0 G NEW1 G NEW2 G NEW3 G NEW4 G NEW5 G NEW6 G NEW7
G OLD4 G OLD5 G OLD6 G OLD7 G OLD0 G OLD1 G OLD2 G OLD3
PICLK H R
PCLK 2 -PCLK 2
PCLK -PCLK
TP3006 TP3007 TP3008 TP3009 TP3010 TP3011
PB62 PB63

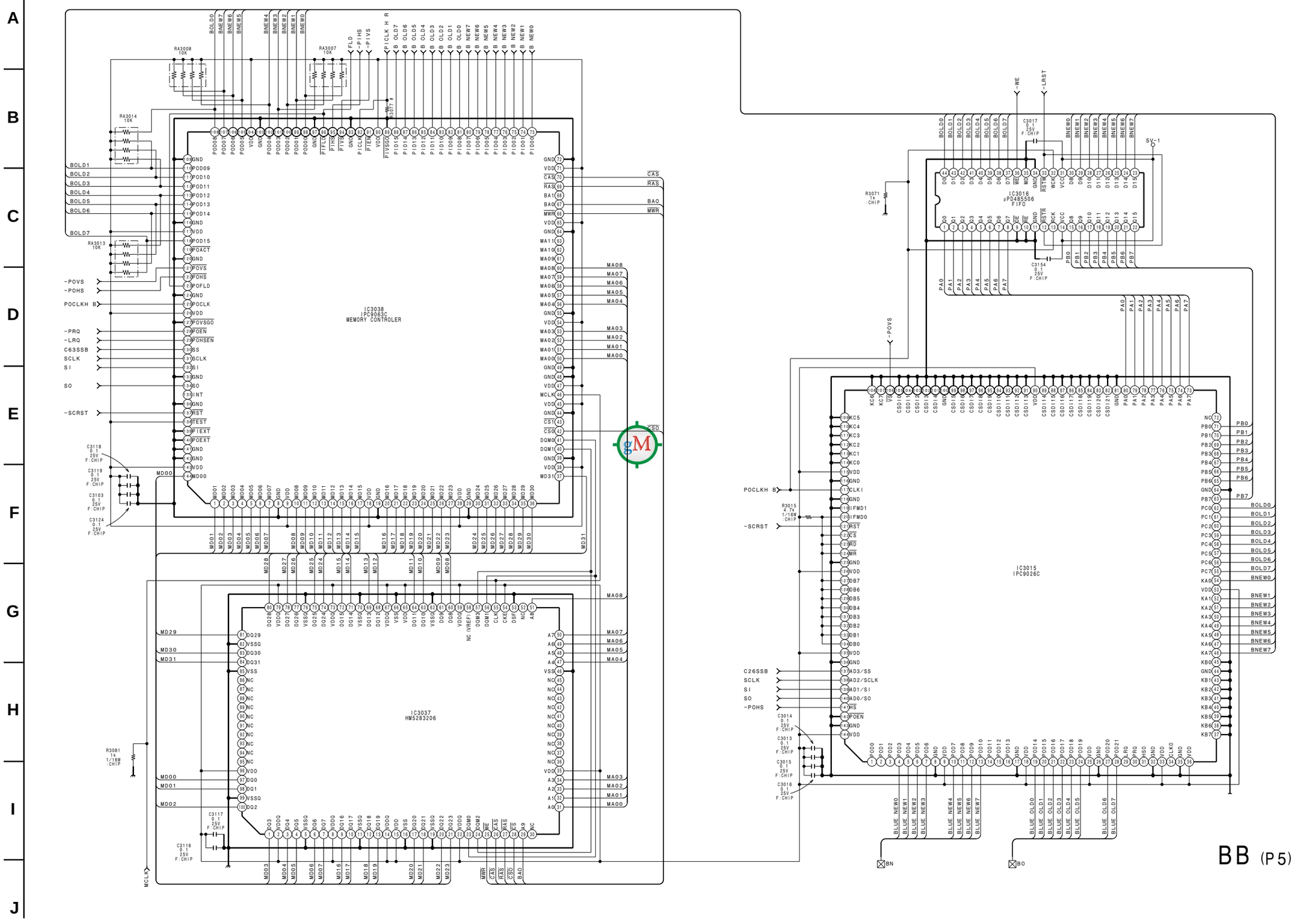
BB (P1)

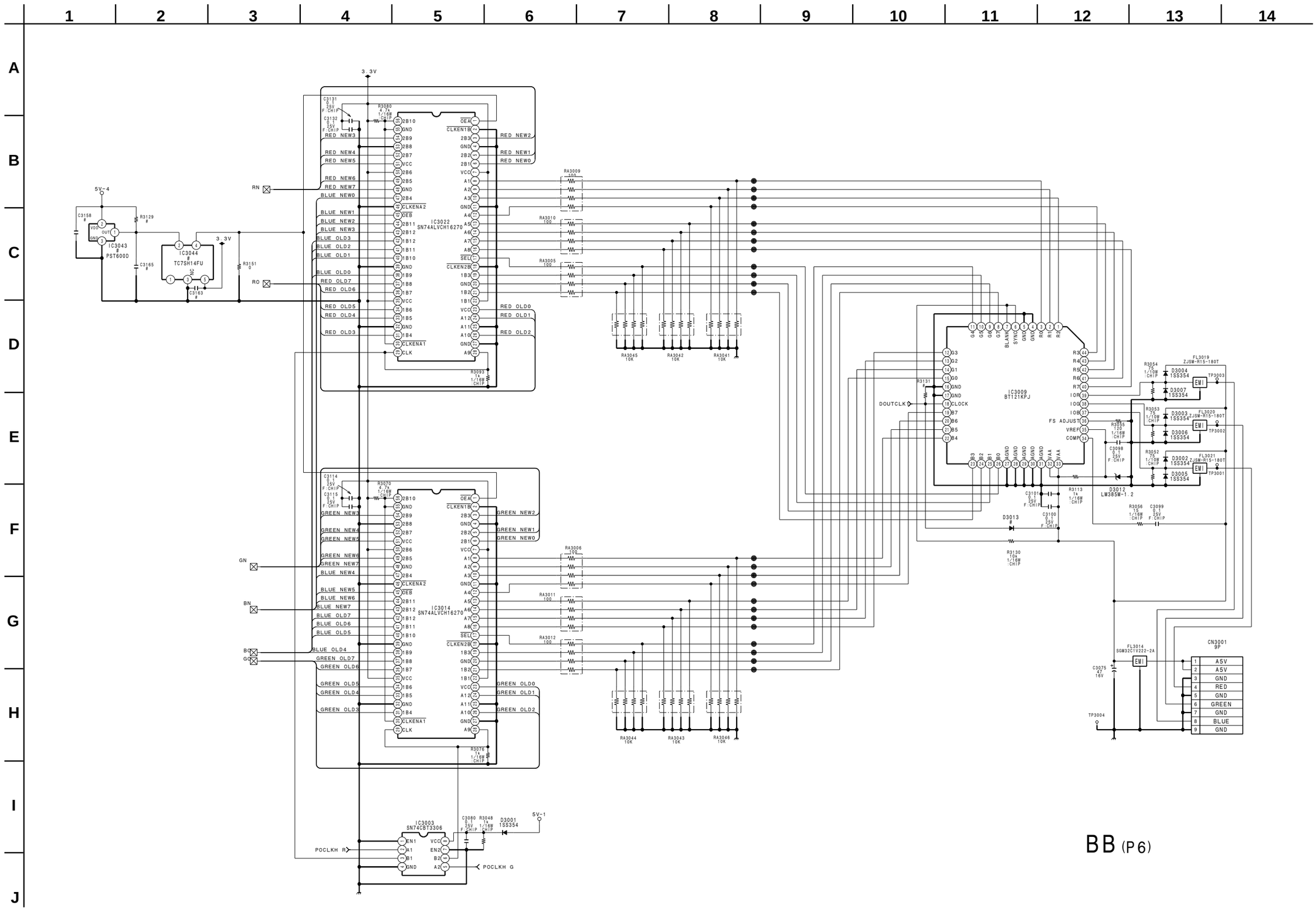

CN3004
12P
+5V
+5V
GND
GND
-5V
-5V
HS
GND
VS
GND
CLAMP
GND
CN3002
D5V
D5V
D5V
GND
GND
GND
D3.3V
D3.3V
D3.3V
D3.3V
GND
GND
GND
CN3003
OCLK+
OCLK-
GND
GND
GND
CK12/OCLK
GND
-ENB1
GND
-ENB2
GND
-HSO
GND
-VSO
GND
-HSTHO
GND
-VSTHO
GND
SCAD0
SCAD1
SCAD2
SCAD3
SCCLK
GND
SCWD
GND
SCRD
GND
-SCRST
FL3018 SGM32C1V222-2A
FL3017 SGM32C1V222-2A
FL3013
FL3012 NFM839R02G470
FL3011 NFM839R02G470
FL3016 SGM32C1V222-2A
FL3015 SGM32C1V222-2A
FL3001 MEM2012T101R
FL3002 MEM2012T101R
FL3003 MEM2012T50R
FL3004
FL3005
FL3006 MEM2012T50R
FL3007 MEM2012T50R
FL3008 MEM2012T50R
FL3009 MEM2012T50R
FL3010 MEM2012T50R
TP3012
TP3013
TP3014
CLAMP
IC3008
IC3045 TC7SH14FU
IC3034 (3/4) 74HCT86
IC3034 (2/4) 74HCT86
IC3034 (1/4) 74HCT86
IC3034 (4/4) 74HCT86
IC3004 MC100ELT20
IC3035 74ABT541
IC3005 74LCX541
IC3046 74LCX574
IC3036 SN74CBT3306
IC3006 74ABT574
IC3001 nL3225227T-100J
IC3011 CXA3106Q
IC3027 SN74CBT3306
IC3042 74LCX74
IC3026 IPC901C
IC3007 CDC339
X3002 SG-8002JCPTC 52MHz
RA3019 10K
RA3020 10K
PB64
PB65
PICLKH G
PICLKH B
B NEW3
B NEW2
B NEW1
B NEW0
PLLSIN
PLLSCLK
PLLSEN
-PIVS
-IHS
DOUTCLK2
OBUFCLK
POCLKH B
POCLKH G
POCLKH R
DOUTCLK1
POCLK
-PIHSEN
-PIHS
-LRQ
-LRST
-WE
SO
SI
SCLK
PLLSEN
PLLSCLK
PLLSIN
5V-3
5V-1
3.3V
-5V

BB (P2)


IC3040
IPC9065C
MEMORY CONTROLER
IC3039
HM5283206
IC3024
μPD485506
FIFO
IC3023
IPC9026C
BB (P3)


IC3033
IPC9063C
MEMORY CONTROLER
IC3032
HM5283206
IC3001
IPC9026C
IC3002
μPD485506
FIFO
BB (P4)


IC3038
IPC9065C
MEMORY CONTROLER
IC3037
HMS283206
IC3015
IPC9026C
IC3016
μPD485506
FIFO
BB (P5)


IC3022
SN74ALVCH16270
IC3014
SN74ALVCH16270
IC3009
BT121KPJ
IC3043
PST600D
IC3044
TC7SH14FU
IC3003
SN74CBT3306
RED_NEW3
RED_NEW4
RED_NEW5
RED_NEW6
RED_NEW7
BLUE_NEW0
BLUE_NEW1
BLUE_NEW2
BLUE_NEW3
BLUE_OLD3
BLUE_OLD2
BLUE_OLD1
BLUE_OLD0
RED_OLD7
RED_OLD6
RED_OLD5
RED_OLD4
RED_OLD3
RED_NEW2
RED_NEW1
RED_NEW0
RED_OLD0
RED_OLD1
RED_OLD2
GREEN_NEW3
GREEN_NEW4
GREEN_NEW5
GREEN_NEW6
GREEN_NEW7
BLUE_NEW4
BLUE_NEW5
BLUE_NEW6
BLUE_NEW7
BLUE_OLD7
BLUE_OLD6
BLUE_OLD5
BLUE_OLD4
GREEN_OLD7
GREEN_OLD6
GREEN_OLD5
GREEN_OLD4
GREEN_OLD3
GREEN_NEW2
GREEN_NEW1
GREEN_NEW0
GREEN_OLD0
GREEN_OLD1
GREEN_OLD2
DOUTCLK
POCLKH R
POCLKH G
FS ADJUST
VREF
COMP
D3012
LM385M-1.2
D3013
CN3001
9P
A5V
GND
RED
GREEN
BLUE
BB (P6)

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